

Burkard Hillebrands

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441 papers	20,414 citations	70 h-index	126 g-index
471 ext. papers	23,020 ext. citations	4.3 avg, IF	6.84 L-index

#	Paper	IF	Citations
441	Magnon spintronics. <i>Nature Physics</i> , 2015 , 11, 453-461	16.2	1243
440	YIG magnonics. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 264002	3	781
439	Bose-Einstein condensation of quasi-equilibrium magnons at room temperature under pumping. <i>Nature</i> , 2006 , 443, 430-3	50.4	598
438	Realization of spin-wave logic gates. <i>Applied Physics Letters</i> , 2008 , 92, 022505	3.4	495
437	Magnon transistor for all-magnon data processing. <i>Nature Communications</i> , 2014 , 5, 4700	17.4	444
436	Brillouin light scattering studies of confined spin waves: linear and nonlinear confinement. <i>Physics Reports</i> , 2001 , 348, 441-489	27.7	426
435	Spin wave wells in nonellipsoidal micrometer size magnetic elements. <i>Physical Review Letters</i> , 2002 , 88, 047204	7.4	343
434	Spin-wave logical gates. <i>Applied Physics Letters</i> , 2005 , 87, 153501	3.4	336
433	The 2014 Magnetism Roadmap. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 333001	3	291
432	Effective dipolar boundary conditions for dynamic magnetization in thin magnetic stripes. <i>Physical Review B</i> , 2002 , 66,	3.3	270
431	Review on spintronics: Principles and device applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 509, 166711	2.8	266
430	Realization of a spin-wave multiplexer. <i>Nature Communications</i> , 2014 , 5, 3727	17.4	249
429	The 2017 Magnetism Roadmap. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 363001	3	229
428	Spin-wave calculations for multilayered structures. <i>Physical Review B</i> , 1990 , 41, 530-540	3.3	227
427	Spin pumping by parametrically excited exchange magnons. <i>Physical Review Letters</i> , 2011 , 106, 216601	7.4	225
426	Crystal-field excitations in CeB6 studied by Raman and neutron spectroscopy. <i>Physical Review B</i> , 1984 , 30, 4052-4054	3.3	225
425	Magnonic crystals for data processing. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 244001	3	209

424	Magnetic anisotropies of ultrathin Co(001) films on Cu(001). <i>Physical Review Letters</i> , 1992 , 69, 3674-3677.	7.4	209
423	Long-range spin Seebeck effect and acoustic spin pumping. <i>Nature Materials</i> , 2011 , 10, 737-41	27	199
422	Magnetic anisotropy, exchange and damping in cobalt-based full-Heusler compounds: an experimental review. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 193001	3	183
421	Lateral Quantization of Spin Waves in Micron Size Magnetic Wires. <i>Physical Review Letters</i> , 1998 , 81, 3968-3971.	7.4	180
420	Switching behavior of a Stoner particle beyond the relaxation time limit. <i>Physical Review B</i> , 2000 , 61, 3410-3416	3.3	161
419	Scattering of backward spin waves in a one-dimensional magnonic crystal. <i>Applied Physics Letters</i> , 2008 , 93, 022508	3.4	158
418	Brillouin light scattering from quantized spin waves in micron-size magnetic wires. <i>Physical Review B</i> , 1999 , 60, 15194-15200	3.3	157
417	Micro-focused Brillouin light scattering: imaging spin waves at the nanoscale. <i>Frontiers in Physics</i> , 2015 , 3,	3.9	155
416	Spin-wave propagation in a microstructured magnonic crystal. <i>Applied Physics Letters</i> , 2009 , 95, 262508	3.4	146
415	Length Scale of the Spin Seebeck Effect. <i>Physical Review Letters</i> , 2015 , 115, 096602	7.4	142
414	Phase coherent precessional magnetization reversal in microscopic spin valve elements. <i>Physical Review Letters</i> , 2003 , 90, 017201	7.4	140
413	Pulsed laser deposition of epitaxial yttrium iron garnet films with low Gilbert damping and bulk-like magnetization. <i>APL Materials</i> , 2014 , 2, 106102	5.7	137
412	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		137
411	A current-controlled, dynamic magnonic crystal. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 205005	3	135
410	Spin-wave excitation and propagation in microstructured waveguides of yttrium iron garnet/Pt bilayers. <i>Applied Physics Letters</i> , 2014 , 104, 012402	3.4	132
409	All-linear time reversal by a dynamic artificial crystal. <i>Nature Communications</i> , 2010 , 1, 141	17.4	132
408	Local manipulation and reversal of the exchange bias field by ion irradiation in FeNi/FeMn double layers. <i>Physical Review B</i> , 2001 , 63,	3.3	128
407	Phase reciprocity of spin-wave excitation by a microstrip antenna. <i>Physical Review B</i> , 2008 , 77,	3.3	124

406	Experimental prototype of a spin-wave majority gate. <i>Applied Physics Letters</i> , 2017 , 110, 152401	3.4	122
405	Spin-wave eigenmodes of permalloy squares with a closure domain structure. <i>Physical Review Letters</i> , 2005 , 94, 057202	7.4	122
404	Design of a spin-wave majority gate employing mode selection. <i>Applied Physics Letters</i> , 2014 , 105, 152410	3.4	121
403	Spin-wave excitations in finite rectangular elements of Ni ₈₀ Fe ₂₀ . <i>Physical Review B</i> , 2005 , 72,	3.3	120
402	Enhancement of the spin pumping efficiency by spin wave mode selection. <i>Applied Physics Letters</i> , 2010 , 97, 252504	3.4	117
401	Spin waves turning a corner. <i>Applied Physics Letters</i> , 2012 , 101, 042410	3.4	115
400	Magnetic domain-wall motion by propagating spin waves. <i>Applied Physics Letters</i> , 2009 , 94, 112502	3.4	114
399	Optically reconfigurable magnetic materials. <i>Nature Physics</i> , 2015 , 11, 487-491	16.2	111
398	Anisotropic magnetic coupling of permalloy micron dots forming a square lattice. <i>Applied Physics Letters</i> , 1997 , 70, 2912-2914	3.4	106
397	Unidirectional spin-wave heat conveyer. <i>Nature Materials</i> , 2013 , 12, 549-53	27	104
396	Scattering of surface and volume spin waves in a magnonic crystal. <i>Applied Physics Letters</i> , 2009 , 94, 172511	3.4	104
395	Direct detection of magnon spin transport by the inverse spin Hall effect. <i>Applied Physics Letters</i> , 2012 , 100, 082405	3.4	100
394	Improvement of the yttrium iron garnet/platinum interface for spin pumping-based applications. <i>Applied Physics Letters</i> , 2013 , 103, 022411	3.4	98
393	Direct measurement of magnon temperature: new insight into magnon-phonon coupling in magnetic insulators. <i>Physical Review Letters</i> , 2013 , 111, 107204	7.4	96
392	Radiation of spin waves by a single micrometer-sized magnetic element. <i>Applied Physics Letters</i> , 2004 , 85, 2866-2868	3.4	94
391	Reconfigurable nanoscale spin-wave directional coupler. <i>Science Advances</i> , 2018 , 4, e1701517	14.3	92
390	Suppression of exchange bias by ion irradiation. <i>Applied Physics Letters</i> , 2000 , 76, 1057-1059	3.4	92
389	Nondiffractive subwavelength wave beams in a medium with externally controlled anisotropy. <i>Physical Review Letters</i> , 2010 , 104, 197203	7.4	91

388	Thickness and power dependence of the spin-pumping effect in Y3Fe5O12/Pt heterostructures measured by the inverse spin Hall effect. <i>Physical Review B</i> , 2015 , 91,	3.3	90
387	Tunneling of dipolar spin waves through a region of inhomogeneous magnetic field. <i>Physical Review Letters</i> , 2004 , 93, 047201	7.4	90
386	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	7.4	90
385	Supercurrent in a room-temperature Bose-Einstein magnon condensate. <i>Nature Physics</i> , 2016 , 12, 1057-1062	10.2	89
384	Experimental observation of symmetry-breaking nonlinear modes in an active ring. <i>Nature</i> , 2003 , 426, 159-62	50.4	86
383	Progress in multipass tandem Fabry-Pérot 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	1.7	84
382	Spin-wave wells with multiple states created in small magnetic elements. <i>Applied Physics Letters</i> , 2003 , 82, 607-609	3.4	82
381	A spin-wave logic gate based on a width-modulated dynamic magnonic crystal. <i>Applied Physics Letters</i> , 2015 , 106, 102405	3.4	81
380	Measurements of the exchange stiffness of YIG films using broadband ferromagnetic resonance techniques. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 015001	3	79
379	Elastic and magnetoelastic effects in CeB6. <i>European Physical Journal B</i> , 1984 , 58, 31-38	1.2	79
378	Suppression of magnetic-field pulse-induced magnetization precession by pulse tailoring. <i>Applied Physics Letters</i> , 2000 , 76, 2758-2760	3.4	78
377	Spin-wave logic devices based on isotropic forward volume magnetostatic waves. <i>Applied Physics Letters</i> , 2015 , 106, 212406	3.4	77
376	Low-damping spin-wave propagation in a micro-structured Co2Mn0.6Fe0.4Si Heusler waveguide. <i>Applied Physics Letters</i> , 2012 , 100, 112402	3.4	76
375	Observation of Spatiotemporal Self-Focusing of Spin Waves in Magnetic Films. <i>Physical Review Letters</i> , 1998 , 81, 3769-3772	7.4	76
374	Bose-Einstein condensation in an ultra-hot gas of pumped magnons. <i>Nature Communications</i> , 2014 , 5, 3452	17.4	74
373	Spin-wave quantization and dynamic coupling in micron-size circular magnetic dots. <i>Applied Physics Letters</i> , 1999 , 75, 3859-3861	3.4	71
372	Evidence for the existence of guided longitudinal acoustic phonons in ZnSe films on GaAs. <i>Physical Review Letters</i> , 1988 , 60, 832-835	7.4	71
371	Magnetic anisotropies of ultrathin Co films on Cu(1 1 13) substrates. <i>Physical Review B</i> , 1994 , 49, 3633-3636	3.6	70

- 370 Structural relaxation and magnetic anisotropy in Co/Cu(001) films. *Physical Review B*, **1996**, 54, 4075-4079, 3.3 69
- 369 The 2021 Magnonics Roadmap. *Journal of Physics Condensed Matter*, **2021**, 33, 1.8 69
- 368 In situ Brillouin scattering from surface-anisotropy-dominated Damon-Eshbach modes in ultrathin epitaxial Fe(110) layers. *Physical Review B*, **1987**, 36, 2450-2453 3.3 68
- 367 A micro-structured ion-implanted magnonic crystal. *Applied Physics Letters*, **2013**, 102, 202403 3.4 67
- 366 Linear and nonlinear diffraction of dipolar spin waves in yttrium iron garnet films observed by space- and time-resolved Brillouin light scattering. *Physical Review B*, **2000**, 61, 11576-11587 3.3 67
- 365 Magnetoelastic modes and lifetime of magnons in thin yttrium iron garnet films. *Physical Review B*, **2014**, 89, 3.3 66
- 364 Calculation of spin waves in multilayered structures including interface anisotropies and exchange contributions. *Physical Review B*, **1988**, 37, 9885-9888 3.3 66
- 363 Design and optimization of one-dimensional ferrite-film based magnonic crystals. *Journal of Applied Physics*, **2009**, 105, 083906 2.5 64
- 362 Huge quadratic magneto-optical Kerr effect and magnetization reversal in the Co₂FeSi Heusler compound. *Journal Physics D: Applied Physics*, **2007**, 40, 1563-1569 3 64
- 361 Induced anisotropies in exchange-coupled systems on rippled substrates. *Physical Review B*, **2007**, 75, 3.3 64
- 360 Microwave assisted switching in a Ni₈₁Fe₁₉ ellipsoid. *Applied Physics Letters*, **2007**, 90, 062503 3.4 64
- 359 All-optical observation and reconstruction of spin wave dispersion. *Nature Communications*, **2017**, 8, 15859, 3.4 63
- 358 Storage-recovery phenomenon in magnonic crystal. *Physical Review Letters*, **2012**, 108, 257207 7.4 61
- 357 Low spin-wave damping in amorphous Co₄₀Fe₄₀B₂₀ thin films. *Journal of Applied Physics*, **2013**, 113, 213909 2.5 61
- 356 Resonant and nonresonant scattering of dipole-dominated spin waves from a region of inhomogeneous magnetic field in a ferromagnetic film. *Physical Review B*, **2007**, 76, 3.3 60
- 355 Influence of the L21 ordering degree on the magnetic properties of Co₂MnSi Heusler films. *Journal of Applied Physics*, **2008**, 103, 103910 2.5 59
- 354 Brillouin scattering from collective spin waves in magnetic superlattices (invited). *Journal of Applied Physics*, **1988**, 63, 3880-3884 2.5 59
- 353 Role of bulk-magnon transport in the temporal evolution of the longitudinal spin-Seebeck effect. *Physical Review B*, **2014**, 89, 3.3 58

352	Oscillatory exchange bias effect in FeNi/Cu/FeMn and FeNi/Cr/FeMn trilayer systems. <i>Journal of Applied Physics</i> , 2000 , 87, 5064-5066	2.5	58
351	Magnon-fluxon interaction in a ferromagnet/superconductor heterostructure. <i>Nature Physics</i> , 2019 , 15, 477-482	16.2	56
350	Nonlinear emission of spin-wave caustics from an edge mode of a microstructured Co ₂ Mn(0:6)Fe(0:4)Si waveguide. <i>Physical Review Letters</i> , 2013 , 110, 067201	7.4	55
349	The role of the non-magnetic material in spin pumping and magnetization dynamics in NiFe and CoFeB multilayer systems. <i>Journal of Applied Physics</i> , 2015 , 117, 163901	2.5	54
348	Roadmap on STIRAP applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2019 , 52, 202001	1.3	54
347	Critical properties of nanoporous low dielectric constant films revealed by Brillouin light scattering and surface acoustic wave spectroscopy. <i>Applied Physics Letters</i> , 2002 , 80, 4594-4596	3.4	54
346	Surface-grating-induced zone folding and hybridization of surface acoustic modes. <i>Physical Review Letters</i> , 1992 , 68, 2464-2467	7.4	54
345	Control of interlayer exchange coupling in Fe/Cr/Fe trilayers by ion beam irradiation. <i>Physical Review Letters</i> , 2003 , 90, 097201	7.4	53
344	Magneto-optic ellipsometry in multilayers at arbitrary magnetization. <i>Optics Express</i> , 2001 , 9, 121-35	3.3	53
343	Annealing influence on the Gilbert damping parameter and the exchange constant of CoFeB thin films. <i>Applied Physics Letters</i> , 2014 , 104, 182407	3.4	52
342	Interference of coherent spin waves in micron-sized ferromagnetic waveguides. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2404-2408	1.3	52
341	All-optical detection of phase fronts of propagating spin waves in a Ni ₈₁ Fe ₁₉ microstripe. <i>Applied Physics Letters</i> , 2009 , 95, 182508	3.4	52
340	Observation of coherence and partial decoherence of quantized spin waves in nanoscaled magnetic ring structures. <i>Physical Review Letters</i> , 2008 , 100, 047204	7.4	52
339	Magnetic micropatterning of FeNi/FeMn exchange bias bilayers by ion irradiation. <i>Journal of Applied Physics</i> , 2001 , 89, 6606-6608	2.5	52
338	Brillouin light scattering spectroscopy of parametrically excited dipole-exchange magnons. <i>Physical Review B</i> , 2012 , 86,	3.3	51
337	Mode conversion by symmetry breaking of propagating spin waves. <i>Applied Physics Letters</i> , 2011 , 99, 162505	3.4	51
336	Phase-sensitive Brillouin light scattering spectroscopy from spin-wave packets. <i>Applied Physics Letters</i> , 2006 , 89, 063506	3.4	51
335	Brillouin light scattering investigations of structured permalloy films. <i>Journal of Applied Physics</i> , 1997 , 81, 4993-4995	2.5	50

334	Parallel pumping for magnon spintronics: Amplification and manipulation of magnon spin currents on the micron-scale. <i>Physics Reports</i> , 2017 , 699, 1-34	27.7	49
333	Phase shift of spin waves traveling through a 180/spl deg/ Bloch-domain wall. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 3094-3096	2	49
332	Dipolar interactions and the magnetic behavior of two-dimensional ferromagnetic systems. <i>Physical Review B</i> , 1991 , 44, 12417-12423	3.3	49
331	Determination of the whole set of elastic constants of a polymeric Langmuir-Blodgett film by Brillouin spectroscopy. <i>Physical Review B</i> , 1989 , 40, 3323-3328	3.3	49
330	Sign of inverse spin Hall voltages generated by ferromagnetic resonance and temperature gradients in yttrium iron garnet platinum bilayers. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 025001	3	48
329	Brillouin light scattering on chemical-vapor-deposited polycrystalline diamond: Evaluation of the elastic moduli. <i>Applied Physics Letters</i> , 1991 , 59, 1055-1057	3.4	47
328	Lack of correlation between the spin-mixing conductance and the inverse spin Hall effect generated voltages in CoFeB/Pt and CoFeB/Ta bilayers. <i>Physical Review B</i> , 2017 , 95,	3.3	46
327	Enhanced coercivity of exchange-bias Fe/MnPd bilayers. <i>Applied Physics Letters</i> , 1999 , 75, 707-709	3.4	46
326	Voltage-controlled nanoscale reconfigurable magnonic crystal. <i>Physical Review B</i> , 2017 , 95,	3.3	45
325	Temporal evolution of inverse spin Hall effect voltage in a magnetic insulator-nonmagnetic metal structure. <i>Applied Physics Letters</i> , 2011 , 99, 182512	3.4	45
324	Parametrically stimulated recovery of a microwave signal stored in standing spin-wave modes of a magnetic film. <i>Physical Review Letters</i> , 2007 , 99, 227202	7.4	45
323	Dispersion of localized elastic modes in thin supported gold layers measured by Brillouin scattering. <i>Journal of Applied Physics</i> , 1985 , 58, 3166-3168	2.5	45
322	Effect of annealing on Co ₂ FeAl _{0.5} Si _{0.5} thin films: A magneto-optical and x-ray absorption study. <i>Physical Review B</i> , 2011 , 83,	3.3	44
321	Study of fully epitaxial Fe/Pt bilayers for spin pumping by ferromagnetic resonance spectroscopy. <i>Physical Review B</i> , 2016 , 93,	3.3	43
320	Heat-induced damping modification in yttrium iron garnet/platinum hetero-structures. <i>Applied Physics Letters</i> , 2013 , 102, 062417	3.4	43
319	Wide-range wavevector selectivity of magnon gases in Brillouin light scattering spectroscopy. <i>Review of Scientific Instruments</i> , 2010 , 81, 073902	1.7	43
318	Angular dependence and phase diagrams of exchange-coupled epitaxial Ni ₈₁ Fe ₁₉ /Fe ₅₀ Mn ₅₀ (001) bilayers. <i>Physical Review B</i> , 2002 , 65,	3.3	42
317	Brillouin light scattering investigations of exchange biased (110)-oriented NiFe/FeMn bilayers. <i>Journal of Applied Physics</i> , 1998 , 83, 2863-2865	2.5	42

316	Determination of exchange constants of Heusler compounds by Brillouin light scattering spectroscopy: application to Co ₂ MnSi. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 084005	3	41
315	Localized phonon modes in Fe-Pd multilayer structures. <i>Physical Review B</i> , 1986 , 34, 9004-9007	3.3	41
314	Reverse Doppler effect of magnons with negative group velocity scattered from a moving Bragg grating. <i>Physical Review B</i> , 2010 , 81,	3.3	40
313	Direct observation of two-dimensional self-focusing of spin waves in magnetic films. <i>Physical Review B</i> , 1997 , 56, R8483-R8486	3.3	40
312	Spin wave quantization in laterally confined magnetic structures (invited). <i>Journal of Applied Physics</i> , 2001 , 89, 7091-7095	2.5	40
311	Collective spin waves in Fe-Pd and Fe-W multilayer structures. <i>Physical Review B</i> , 1986 , 34, 9000-9003	3.3	40
310	Spinwaves in Laterally Confined Magnetic Structures 2002 , 65-92		39
309	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	39
308	Elastic properties of epitaxial ZnSe(001) films on GaAs measured by Brillouin spectroscopy. <i>Journal of Applied Physics</i> , 1988 , 63, 1914-1916	2.5	39
307	Oscillatory energy exchange between waves coupled by a dynamic artificial crystal. <i>Physical Review Letters</i> , 2012 , 108, 015505	7.4	38
306	Self-generation of two-dimensional spin-wave bullets. <i>Physical Review Letters</i> , 2004 , 92, 117203	7.4	38
305	Correlation between structure and magnetic anisotropies of Co on Cu(110). <i>Physical Review B</i> , 1998 , 57, 5870-5878	3.3	38
304	Bottleneck Accumulation of Hybrid Magnetoelastic Bosons. <i>Physical Review Letters</i> , 2017 , 118, 237201	7.4	36
303	Structure, exchange stiffness, and magnetic anisotropy of Co ₂ MnAl _x Si _{1-x} Heusler compounds. <i>Journal of Applied Physics</i> , 2009 , 106, 113907	2.5	36
302	Determination of the sound velocities and the complete set of elastic constants for Bi ₂ Sr ₂ CaCu ₂ O _{8-x} single crystals using Brillouin light scattering. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 179, 101-106	1.3	36
301	Magnonic band gap design by the edge modulation of micro-sized waveguides. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 255002	3	35
300	Direct observation of domain wall structures in curved permalloy wires containing an antinotch. <i>Journal of Applied Physics</i> , 2008 , 103, 093906	2.5	35
299	Suppression of the magnetocrystalline bulk anisotropy in thin epitaxial Co(110) films on Cu(110). <i>Physical Review B</i> , 1996 , 53, R10548-R10551	3.3	35

298	Oscillatory interlayer exchange coupling of Co/Ru multilayers investigated by Brillouin light scattering. <i>Physical Review B</i> , 1992 , 46, 5810-5813	3.3	35
297	Parametric generation of forward and phase-conjugated spin-wave bullets in magnetic films. <i>Physical Review Letters</i> , 2005 , 94, 167202	7.4	34
296	Tuning exchange bias and coercive fields in ferromagnet/antiferromagnet bilayers with ion irradiation. <i>Journal of Applied Physics</i> , 2002 , 91, 6896	2.5	33
295	Elastic properties of thin h-BN films investigated by Brillouin light scattering. <i>Thin Solid Films</i> , 1999 , 353, 137-143	2.2	33
294	Spin-wave propagation across periodically corrugated thin metallic ferromagnetic films. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 161, 199-202	2.8	33
293	Sound velocities of YBa ₂ Cu ₃ O ₇ single crystals measured by Brillouin spectroscopy. <i>Solid State Communications</i> , 1989 , 69, 1135-1137	1.6	33
292	Spin-wave propagation and transformation in a thermal gradient. <i>Applied Physics Letters</i> , 2012 , 101, 192406	4.6	32
291	Generation of propagating backward volume spin waves by phase-sensitive mode conversion in two-dimensional microstructures. <i>Applied Physics Letters</i> , 2013 , 102, 132411	3.4	32
290	Direct observation of nonlinear four-magnon scattering in spin-wave microconduits. <i>Physical Review B</i> , 2012 , 86,	3.3	31
289	Spin-wave propagation on imperfect ultrathin ferromagnetic films. <i>Physical Review B</i> , 1993 , 47, 5072-5076	3.6	31
288	Control of Spin-Wave Propagation using Magnetisation Gradients. <i>Scientific Reports</i> , 2018 , 8, 11099	4.9	30
287	Magnonic band gaps in waveguides with a periodic variation of the saturation magnetization. <i>Physical Review B</i> , 2013 , 88,	3.3	30
286	Magnonic crystal based forced dominant wavenumber selection in a spin-wave active ring. <i>Applied Physics Letters</i> , 2010 , 96, 082505	3.4	30
285	Biased switching of small magnetic particles. <i>Applied Physics Letters</i> , 1999 , 75, 1143-1145	3.4	30
284	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	3.3	30
283	Brillouin light scattering from spin waves in magnetic layers and multilayers. <i>Applied Physics A: Solids and Surfaces</i> , 1989 , 49, 589-598		30
282	Spin-transfer torque based damping control of parametrically excited spin waves in a magnetic insulator. <i>Applied Physics Letters</i> , 2016 , 108, 012402	3.4	30
281	Optimizing the spin-pumping induced inverse spin Hall voltage by crystal growth in Fe/Pt bilayers. <i>Applied Physics Letters</i> , 2013 , 103, 162401	3.4	29

280	A spin-wave frequency doubler by domain wall oscillation. <i>Applied Physics Letters</i> , 2009 , 94, 223510	3.4	29
279	Magnetization Reversal of Exchange Bias Double Layers Magnetically Patterned by Ion Irradiation. <i>Physica Status Solidi A</i> , 2002 , 189, 439-447		29
278	Ion irradiation of exchange bias systems for magnetic sensor applications. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 77, 51-56	2.6	29
277	Dipole-exchange modes in thin ferromagnetic films with strong out-of-plane anisotropies. <i>Physical Review B</i> , 1991 , 43, 3532-3539	3.3	29
276	Bose-Einstein condensation of quasiparticles by rapid cooling. <i>Nature Nanotechnology</i> , 2020 , 15, 457-461	8.7	29
275	Direct current control of three magnon scattering processes in spin-valve nanocontacts. <i>Physical Review Letters</i> , 2009 , 103, 157202	7.4	28
274	Mode selective parametric excitation of spin waves in a Ni ₈₁ Fe ₁₉ microstripe. <i>Applied Physics Letters</i> , 2011 , 99, 162501	3.4	28
273	Spin-Wave Excitations in Finite Rectangular Elements		28
272	Comparative study of the epitaxial growth of Cu on MgO(0 0 1) and on hydrogen terminated Si(0 0 1). <i>Surface Science</i> , 2001 , 481, 87-96	1.8	28
271	Magnetic anisotropies of ultrathin Co films on Cu(001) and Cu(111) substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 121, 483-486	2.8	28
270	Sound velocities of YBa ₂ Cu ₃ O _{7-x} and Bi ₂ Sr ₂ CaCu ₂ O _x single crystals measured by Brillouin spectroscopy. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 1073-1074	1.3	28
269	Field-induced transition from parallel to perpendicular parametric pumping for a microstrip transducer. <i>Applied Physics Letters</i> , 2009 , 94, 192502	3.4	27
268	Probing interface magnetism in the FeMn/NiFe exchange bias system using magnetic second-harmonic generation. <i>Europhysics Letters</i> , 2003 , 63, 819-825	1.6	27
267	Modified Gilbert damping due to exchange bias in NiFe/FeMn bilayers. <i>Journal of Applied Physics</i> , 2005 , 97, 10A701	2.5	27
266	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	7.4	27
265	Elastic anomalies in intermediate valence rare-earth intermetallics. <i>Journal of Magnetism and Magnetic Materials</i> , 1985 , 47-48, 312-314	2.8	27
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