Burkard Hillebrands

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1873501/publications.pdf

Version: 2024-02-01

462 papers	25,403 citations	8180 76 h-index	9342 143 g-index
471 all docs	471 docs citations	471 times ranked	9346 citing authors

#	Article	IF	Citations
1	Wavevector-dependent magnon accumulation in parametrically populated magnonâ€“phonon spectrum. Journal of Magnetism and Magnetic Materials, 2022, 545, 168628.	2.3	2
2	Fast long-wavelength exchange spin waves in partially compensated Ga:YIG. Applied Physics Letters, 2022, 120, .	3.3	11
3	Accumulation of magnetoelastic bosons in yttrium iron garnet: Kinetic theory and wave-vector-resolved Brillouin light scattering. Physical Review B, 2022, 105, .	3.2	1
4	THz emission from Fe/Pt spintronic emitters with L10-FePt alloyed interface. IScience, 2022, 25, 104319.	4.1	5
5	Fully resonant magneto-elastic spin-wave excitation by surface acoustic waves under conservation of energy and linear momentum. Applied Physics Letters, 2022, 120, .	3.3	11
6	Stimulated-Raman-adiabatic-passage mechanism in a magnonic environment. Applied Physics Letters, 2021, 118, .	3.3	6
7	Local heat emission due to unidirectional spin-wave heat conveyer effect observed by lock-in thermography. Applied Physics Letters, 2021, 118, .	3.3	5
8	Heisenberg Exchange and Dzyaloshinskiiâ€“Moriya Interaction in Ultrathin Pt(W)/CoFeB Single and Multilayers. IEEE Transactions on Magnetics, 2021, 57, 1-7.	2.1	9
9	Advances in coherent magnonics. Nature Reviews Materials, 2021, 6, 1114-1135.	48.7	170
10	Double accumulation and anisotropic transport of magnetoelastic bosons in yttrium iron garnet films. Physical Review B, 2021, 104, .	3.2	8
11	The 2021 Magnonics Roadmap. Journal of Physics Condensed Matter, 2021, 33, 413001.	1.8	287
12	Evolution of room-temperature magnon gas: Toward a coherent Bose-Einstein condensate. Physical Review B, 2021, 104, .	3.2	12
13	Experimental observation of Josephson oscillations in a room-temperature Bose-Einstein magnon condensate. Physical Review B, 2021, 104, .	3.2	8
14	Stabilization of a nonlinear magnonic bullet coexisting with a Bose-Einstein condensate in a rapidly cooled magnonic system driven by spin-orbit torque. Physical Review B, 2021, 104, .	3.2	6
15	Control of the Bose-Einstein Condensation of Magnons by the Spin Hall Effect. Physical Review Letters, 2021, 127, 237203.	7.8	11
16	Interference of co-propagating Rayleigh and Sezawa waves observed with micro-focused Brillouin light scattering spectroscopy. Applied Physics Letters, 2020, 117, 213501.	3.3	5
17	Controlling the propagation of dipole-exchange spin waves using local inhomogeneity of the anisotropy. Physical Review B, 2020, 102, .	3.2	5
18	Spin-Wave Relaxation by Eddy Currents in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>5 mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>12</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>Pt</mml:mi>< Bilayers and a Way to Suppress It. Physical Review Applied, 2020, 14, .	3.8	12

#	Article	IF	Citations
19	Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.	2.3	711
20	Near-field mechanism of the enhanced broadband magneto-optical activity of hybrid Au loaded Bi:YIG. Nanoscale, 2020, 12, 7309-7314.	5.6	10
21	Optical elements for anisotropic spin-wave propagation. Applied Physics Letters, 2020, 116, .	3.3	18
22	Propagating Magnetic Droplet Solitons as Moveable Nanoscale Spin-Wave Sources with Tunable Direction of Emission. Physical Review Applied, 2020, 13, .	3.8	7
23	Reflection-less width-modulated magnonic crystal. Communications Physics, 2020, 3, .	5.3	32
24	Parametric Generation of Propagating Spin Waves in Ultrathin Yttrium Iron Garnet Waveguides. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000011.	2.4	7
25	Experimental Realization of a Passive Gigahertz Frequencyâ€Division Demultiplexer for Magnonic Logic Networks. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900695.	2.4	33
26	Boseâ€"Einstein condensation of quasiparticles by rapid cooling. Nature Nanotechnology, 2020, 15, 457-461.	31.5	52
27	A nonlinear magnonic nano-ring resonator. Npj Computational Materials, 2020, 6, .	8.7	29
28	Boseâ€"Einstein condensation of nonequilibrium magnons in confined systems. New Journal of Physics, 2020, 22, 083080.	2.9	8
29	Unconventional spin currents in magnetic films. Physical Review Research, 2020, 2, .	3.6	13
30	Tunable space-time crystal in room-temperature magnetodielectrics. Physical Review B, 2019, 100, .	3.2	25
31	Roadmap on STIRAP applications. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 202001.	1.5	108
32	Low damping magnetic properties and perpendicular magnetic anisotropy in the Heusler alloy Fe1.5CoGe. AIP Advances, 2019, 9, .	1.3	8
33	Nanoscale spin-wave wake-up receiver. Applied Physics Letters, 2019, 115, .	3.3	9
34	Microstructure Design for Fast Lifetime Measurements of Magnetic Tunneling Junctions. Sensors, 2019, 19, 583.	3.8	1
35	Bogoliubov waves and distant transport of magnon condensate at room temperature. Nature Communications, 2019, 10, 2460.	12.8	42
36	Backscattering Immunity of Dipole-Exchange Magnetostatic Surface Spin Waves. Physical Review Letters, 2019, 122, 197201.	7.8	43

#	Article	IF	Citations
37	Enhancement of the Spin Pumping Effect by Magnon Confluence Process in YIG/Pt Bilayers. Physica Status Solidi (B): Basic Research, 2019, 256, 1900121.	1.5	11
38	Magnonâ€"fluxon interaction in a ferromagnet/superconductor heterostructure. Nature Physics, 2019, 15, 477-482.	16.7	83
39	Room temperature and low-field resonant enhancement of spin Seebeck effect in partially compensated magnets. Nature Communications, 2019, 10, 5162.	12.8	25
40	Dynamic electromagnonic crystal based on artificial multiferroic heterostructure. Communications Physics, 2019, 2, .	5.3	27
41	Magnon Boseâ€"Einstein Condensate and Supercurrents Over a Wide Temperature Range. Ukrainian Journal of Physics, 2019, 64, 927.	0.2	5
42	Determination of the spin Hall angle in single-crystalline Pt films from spin pumping experiments. New Journal of Physics, 2018, 20, 053002.	2.9	33
43	Realization of a Spin-Wave Switch Based on the Spin-Transfer-Torque Effect. IEEE Magnetics Letters, 2018, 9, 1-5.	1.1	3
44	Reconfigurable nanoscale spin-wave directional coupler. Science Advances, 2018, 4, e1701517.	10.3	150
45	Characterization of spin-transfer-torque effect induced magnetization dynamics driven by short current pulses. Applied Physics Letters, 2018, 112, .	3.3	3
46	Evolution of the interfacial perpendicular magnetic anisotropy constant of the Co2FeAl/MgO interface upon annealing. Journal Physics D: Applied Physics, 2018, 51, 165303.	2.8	17
47	Temporal evolution of the spin-wave intensity and phase in a local parametric amplifier. Journal of Magnetism and Magnetic Materials, 2018, 450, 60-64.	2.3	3
48	Separation of the two-magnon scattering contribution to damping for the determination of the spin mixing conductance. Physical Review B, 2018, 98, .	3.2	27
49	Direct observation of spin diffusion enhanced nonadiabatic spin torque effects in rare-earth-doped permalloy. Physical Review B, 2018, 98, .	3.2	3
50	Frequencyâ€Division Multiplexing in Magnonic Logic Networks Based on Causticâ€Like Spinâ€Wave Beams. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800409.	2.4	31
51	Optical determination of the exchange stiffness constant in an iron garnet. Japanese Journal of Applied Physics, 2018, 57, 070308.	1.5	5
52	Spin-wave propagation through a magnonic crystal in a thermal gradient. Journal Physics D: Applied Physics, 2018, 51, 344002.	2.8	15
53	From Kinetic Instability to Bose-Einstein Condensation and Magnon Supercurrents. Physical Review Letters, 2018, 121, 077203.	7.8	28
54	Control of Spin-Wave Propagation using Magnetisation Gradients. Scientific Reports, 2018, 8, 11099.	3.3	51

#	Article	IF	Citations
55	Spin Seebeck effect and ballistic transport of quasi-acoustic magnons in room-temperature yttrium iron garnet films. Journal Physics D: Applied Physics, 2018, 51, 234003.	2.8	14
56	Temperature-dependent relaxation of dipole-exchange magnons in yttrium iron garnet films. Physical Review B, 2018, 97, .	3.2	32
57	Experimental prototype of a spin-wave majority gate. Applied Physics Letters, 2017, 110, .	3.3	158
58	Temporal Evolution of Auto-Oscillations in an Yttrium-Iron-Garnet/Platinum Microdisk Driven by Pulsed Spin Hall Effect-Induced Spin-Transfer Torque. IEEE Magnetics Letters, 2017, 8, 1-4.	1.1	10
59	All-optical observation and reconstruction of spin wave dispersion. Nature Communications, 2017, 8, 15859.	12.8	80
60	Magnonic crystals for data processing. Journal Physics D: Applied Physics, 2017, 50, 244001.	2.8	309
61	CoFeAlB alloy with low damping and low magnetization as a candidate for spin transfer torque switching. Journal of Applied Physics, 2017, 122, .	2.5	4
62	The 2017 Magnetism Roadmap. Journal Physics D: Applied Physics, 2017, 50, 363001.	2.8	279
63	A switchable spin-wave signal splitter for magnonic networks. Applied Physics Letters, 2017, 111, .	3.3	32
64	Parallel pumping for magnon spintronics: Amplification and manipulation of magnon spin currents on the micron-scale. Physics Reports, 2017, 699, 1-34.	25.6	78
65	Relative weight of the inverse spin-Hall and spin-rectification effects for metallic polycrystalline Py/Pt, epitaxial Fe/Pt, and insulating YIG/Pt bilayers: Angular dependent spin pumping measurements. Physical Review B, 2017, 96, .	3.2	31
66	Bottleneck Accumulation of Hybrid Magnetoelastic Bosons. Physical Review Letters, 2017, 118, 237201.	7.8	60
67	Spin-electromagnetic waves in planar multiferroic multilayers. Journal of Applied Physics, 2017, 122, .	2.5	12
68	Spin waves for interconnect applications. , 2017, , .		2
69	Spin-pumping through a varying-thickness MgO interlayer in Fe/Pt system. Applied Physics Letters, 2017, 110, .	3.3	23
70	Voltage-controlled nanoscale reconfigurable magnonic crystal. Physical Review B, 2017, 95, .	3.2	62
71	Damping of parametrically excited magnons in the presence of the longitudinal spin Seebeck effect. Physical Review B, 2017, 95, .	3.2	6
72	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

#	Article	IF	Citations
73	Experimental Investigation of the Temperature-Dependent Magnon Density and Its Influence on Studies of Spin-Transfer-Torque-Driven Systems. IEEE Magnetics Letters, 2017, 8, 1-5.	1.1	4
74	Phase-to-intensity conversion of magnonic spin currents and application to the design of a majority gate. Scientific Reports, 2016, 6, 38235.	3.3	29
75	Spin-transfer torque based damping control of parametrically excited spin waves in a magnetic insulator. Applied Physics Letters, 2016, 108, .	3.3	36
76	Supercurrent in a room-temperature Boseâ€"Einstein magnon condensate. Nature Physics, 2016, 12, 1057-1062.	16.7	125
77	Study of fully epitaxial Fe/Pt bilayers for spin pumping by ferromagnetic resonance spectroscopy. Physical Review B, 2016, 93, .	3.2	55
78	Spin Seebeck effect at microwave frequencies. Physical Review B, 2016, 93, .	3.2	28
79	Splitting of standing spin-wave modes in circular submicron ferromagnetic dot under axial symmetry violation. Scientific Reports, 2016, 5, 18480.	3.3	10
80	Influence of the MgO barrier thickness on the lifetime characteristics of magnetic tunnelling junctions for sensors. Journal Physics D: Applied Physics, 2016, 49, 225001.	2.8	2
81	Magnon Spintronics. , 2016, , 1505-1549.		5
82	Co $$_{2}$$ 2 Mn $$_{0.6}$$ 0.6 Fe $$_{0.4}$$ 0.4 Si: A Heusler Compound Opening New Perspectives in Magnon Spintronics. Springer Series in Materials Science, 2016, , 321-340.	0.6	0
83	Stimulated thermalization of a parametrically driven magnon gas as a prerequisite for Bose-Einstein magnon condensation. Physical Review B, 2015, 91, .	3.2	27
84	Detection of Spin Waves in Permalloy Using Planar Hall Effect. Physical Review Applied, 2015, 4, .	3.8	26
85	Formation of Boseâ€"Einstein magnon condensate via dipolar and exchange thermalization channels. Low Temperature Physics, 2015, 41, 801-805.	0.6	15
86	Width-modulated magnonic crystal and its application for spin-wave logic. , 2015, , .		0
87	Magnetische Materialien nach MaÃŸ fÃ¼r die Spintronik. Physik in Unserer Zeit, 2015, 46, 217-218.	0.0	0
88	Magnonen fÃ¼r den Computer von Ãœbermorgen. Physik in Unserer Zeit, 2015, 46, 34-38.	0.0	1
89	Micro-focused Brillouin light scattering: imaging spin waves at the nanoscale. Frontiers in Physics, 2015, 3, .	2.1	215
90	Optically reconfigurable magnetic materials. Nature Physics, 2015, 11, 487-491.	16.7	149

#	Article	IF	Citations
91	Magnon spintronics. Nature Physics, 2015, 11, 453-461.	16.7	1,804
92	Thickness and power dependence of the spin-pumping effect in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Y</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>5</mml:mn></m mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math>/Pt heterostructures measured by the inverse spin Hall effect. Physical Review B, 2015, 91, .	3.2	114
93	A spin-wave logic gate based on a width-modulated dynamic magnonic crystal. Applied Physics Letters, 2015, 106, .	3.3	104
94	Length Scale of the Spin Seebeck Effect. Physical Review Letters, 2015, 115, 096602.	7.8	163
95	Width-modulated magnonic crystal and its application for spin-wave logic. , 2015, , .		0
96	Magnon Spintronics. , 2015, , 1-38.		1
97	Spin-wave logic devices based on isotropic forward volume magnetostatic waves. Applied Physics Letters, 2015, 106, .	3.3	95
98	All-optical characterisation of the spintronic Heusler compound Co₂Mn_{0.6}Fe_{0.4}Si. Journal Physics D: Applied Physics, 2015, 48, 164015.	2.8	15
99	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
100	Experimental observation of the interaction of propagating spin waves with NÃ©el domain walls in a Landau domain structure. Applied Physics Letters, 2015, 106, .	3.3	22
101	Measurements of the exchange stiffness of YIG films using broadband ferromagnetic resonance techniques. Journal Physics D: Applied Physics, 2015, 48, 015001.	2.8	123
102	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
103	Ultrafast magnetization dynamics in Co-based Heusler compounds with tuned chemical ordering. New Journal of Physics, 2014, 16, 063068.	2.9	15
104	Magneto-Optical Enhancement in Co/Au Patterned Nanostructures. Journal of Surfaces and Interfaces of Materials, 2014, 2, 40-45.	0.5	6
105	Time- and power-dependent operation of a parametric spin-wave amplifier. Applied Physics Letters, 2014, 105, .	3.3	25
106	Annealing influence on the Gilbert damping parameter and the exchange constant of CoFeB thin films. Applied Physics Letters, 2014, 104, .	3.3	69
107	Localized parallel parametric generation of spin waves in a Ni₈₁Fe₁₉ waveguide by spatial variation of the pumping field. Applied Physics Letters, 2014, 104, 092418.	3.3	15
108	Magnetization reversal of in-plane uniaxial Co films and its dependence on epitaxial alignment. Journal of Applied Physics, 2014, 115, .	2.5	34

#	Article	IF	Citations
109	Non-Gilbert-damping Mechanism in a Ferromagnetic Heusler Compound Probed by Nonlinear Spin Dynamics. Physical Review Letters, 2014, 113, 227601.	7.8	19
110	Microwave-induced spin currents in ferromagnetic-insulator|normal-metal bilayer system. Applied Physics Letters, 2014, 105, .	3.3	27
111	Pulsed laser deposition of epitaxial yttrium iron garnet films with low Gilbert damping and bulk-like magnetization. APL Materials, 2014, 2, .	5.1	183
112	Boseâ€"Einstein condensation in an ultra-hot gas of pumped magnons. Nature Communications, 2014, 5, 3452.	12.8	101
113	Spin-wave excitation and propagation in microstructured waveguides of yttrium iron garnet/Pt bilayers. Applied Physics Letters, 2014, 104, .	3.3	147
114	Realization of a spin-wave multiplexer. Nature Communications, 2014, 5, 3727.	12.8	314
115	Magnetoelastic modes and lifetime of magnons in thin yttrium iron garnet films. Physical Review B, 2014, 89, .	3.2	99
116	Magnon transistor for all-magnon data processing. Nature Communications, 2014, 5, 4700.	12.8	632
117	Design of a spin-wave majority gate employing mode selection. Applied Physics Letters, 2014, 105, .	3.3	143
118	Improvement of the yttrium iron garnet/platinum interface for spin pumping-based applications. , 2014, , .		1
119	Parallel parametric amplification of coherently excited propagating spin waves in a microscopic Ni81Fe19 waveguide. Applied Physics Letters, 2014, 104, .	3.3	13
120	Role of bulk-magnon transport in the temporal evolution of the longitudinal spin-Seebeck effect. Physical Review B, 2014, 89, .	3.2	62
121	The 2014 Magnetism Roadmap. Journal Physics D: Applied Physics, 2014, 47, 333001.	2.8	329
122	Improvement of the yttrium iron garnet/platinum interface for spin pumping-based applications. Applied Physics Letters, 2013, 103, .	3.3	109
123	Direct Measurement of Magnon Temperature: New Insight into Magnon-Phonon Coupling in Magnetic Insulators. Physical Review Letters, 2013, 111, 107204.	7.8	109
124	Magnonic band gaps in waveguides with a periodic variation of the saturation magnetization. Physical Review B, 2013, 88, .	3.2	35
125	Explosive Electromagnetic Radiation by the Relaxation of a Multimode Magnon System. Physical Review Letters, 2013, 111, 187206.	7.8	4
126	Localized parametric generation of spin waves in a longitudinally magnetized Ni81Fe19 waveguide. Applied Physics Letters, 2013, 103, 142415.	3.3	16

#	Article	IF	Citations
127	Optimizing the spin-pumping induced inverse spin Hall voltage by crystal growth in Fe/Pt bilayers. Applied Physics Letters, 2013, 103, 162401.	3.3	33
128	Magneto-optical characterization of single crystalline Co₂FeAl_{0.4}Si_{0.6}thin films on MgO(1â€‰0â€‰0) substrates with Cr and MgO seed layers. Journal Physics D: Applied Physics, 2013, 46, 475001.	2.8	4
129	Nonlinear Emission of Spin-Wave Caustics from an Edge Mode of a Microstructured<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Mn</mml:mi><mm Physical Review Letters, 2013, 110, 067201.	7.8	68
130	Heat-induced damping modification in yttrium iron garnet/platinum hetero-structures. Applied Physics Letters, 2013, 102, .	3.3	46
131	The Dynamic Magnonic Crystal: New Horizons in Artificial Crystal Based Signal Processing. Topics in Applied Physics, 2013, , 243-257.	0.8	5
132	Unidirectional spin-wave heat conveyer. Nature Materials, 2013, 12, 549-553.	27.5	125
133	Generation of propagating backward volume spin waves by phase-sensitive mode conversion in two-dimensional microstructures. Applied Physics Letters, 2013, 102, .	3.3	40
134	Magneto-Optical Investigations and Ion Beam-Induced Modification of Heusler Compounds. , 2013, , 285-302.		0
135	Low spin-wave damping in amorphous Co40Fe40B20 thin films. Journal of Applied Physics, 2013, 113, .	2.5	77
136	A micro-structured ion-implanted magnonic crystal. Applied Physics Letters, 2013, 102, .	3.3	75
137	Microscopic magnetic structuring of a spin-wave waveguide by ion implantation in a Ni81Fe19 layer. Applied Physics Letters, 2013, 102, .	3.3	16
138	Low-damping spin-wave propagation in a micro-structured Co₂Mn_{0.6}Fe_{0.4}Si Heusler waveguide. Applied Physics Letters, 2012, 100, 112402.	3.3	80
139	Acoustic spin pumping: Direct generation of spin currents from sound waves in Pt/Y3Fe5O12 hybrid structures. Journal of Applied Physics, 2012, 111, .	2.5	30
140	Atom probe tomography of ion-irradiated ultra-thin Fe/Cr/Fe trilayers with sub-nm spatial resolution. Journal Physics D: Applied Physics, 2012, 45, 505303.	2.8	4
141	Spin-wave propagation and transformation in a thermal gradient. Applied Physics Letters, 2012, 101, 192406.	3.3	37
142	Spin waves turning a corner. Applied Physics Letters, 2012, 101, 042410.	3.3	131
143	Magnonic band gap design by the edge modulation of micro-sized waveguides. Journal Physics D: Applied Physics, 2012, 45, 255002.	2.8	39
144	Direct detection of magnon spin transport by the inverse spin Hall effect. Applied Physics Letters, 2012, 100, .	3.3	121

#	Article	IF	Citations
145	Oscillatory Energy Exchange between Waves Coupled by a Dynamic Artificial Crystal. Physical Review Letters, 2012, 108, 015505.	7.8	48
146	Fabricating high-density magnetic storage elements by low-dose ion beam irradiation. Applied Physics Letters, 2012, 101, .	3.3	4
147	Probing dynamical magnetization pinning in circular dots as a function of the external magnetic field orientation. Physical Review B, 2012, 86, .	3.2	18
148	Brillouin light scattering spectroscopy of parametrically excited dipole-exchange magnons. Physical Review B, 2012, 86, .	3.2	63
149	Direct observation of nonlinear four-magnon scattering in spin-wave microconduits. Physical Review B, 2012, 86, .	3.2	46
150	Storage-Recovery Phenomenon in Magnonic Crystal. Physical Review Letters, 2012, 108, 257207.	7.8	74
151	Mode conversion by symmetry breaking of propagating spin waves. Applied Physics Letters, 2011, 99, .	3.3	59
152	Long-range spin Seebeck effect and acoustic spinÂpumping. Nature Materials, 2011, 10, 737-741.	27.5	235
153	Spin Pumping by Parametrically Excited Exchange Magnons. Physical Review Letters, 2011, 106, 216601.	7.8	256
154	Quadratic magneto-optical Kerr effect in Co2MnSi. Journal of Applied Physics, 2011, 110, 043904.	2.5	18
155	Spin information transfer and transport in hybrid spinmechatronic structures. Journal of Physics: Conference Series, 2011, 303, 012018.	0.4	2
156	Interference of coherent spin waves in micronâ€sized ferromagnetic waveguides. Physica Status Solidi (B): Basic Research, 2011, 248, 2404-2408.	1.5	55
157	Effect of annealing on Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>FeAl<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>0</mml:mn><mml:mo>.</mml:mo><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:m	3.2	46
158	Radiation of Caustic Beams from a Collapsing Bullet. Physical Review Letters, 2011, 106, 134101.	7.8	20
159	Mechanisms of nonlinear spin-wave emission from a microwave-driven nanocontact. Physical Review B, 2011, 84, .	3.2	6
160	Slow magnetization dynamics and energy barriers near vortex state nucleation in circular permalloy dots. Applied Physics Letters, 2011, 99, .	3.3	13
161	Temporal evolution of inverse spin Hall effect voltage in a magnetic insulator-nonmagnetic metal structure. Applied Physics Letters, 2011, 99, .	3.3	47
162	Magneto-optical investigation of the shape anisotropy of individual micron-sized magnetic elements. Journal of Applied Physics, 2011, 110, 083909.	2.5	4

#	Article	IF	Citations
163	Optical Detection of Spin Transport in Nonmagnetic Metals. Physical Review Letters, 2011, 106, 226601.	7.8	15
164	Magneto-optical observation of four-wave scattering in a 15-nm Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>81</mml:mn></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>19</mml:mn></mml:msub></mml:math>film during large-angle magnetization precession. Physical Review B, 2011, 84, .	3.2	11
165	Mode selective parametric excitation of spin waves in a Ni81Fe19 microstripe. Applied Physics Letters, 2011, 99, .	3.3	31
166	Interplay of energy dissipation, ion-induced mixing, and crystal structure recovery, and surface effects in ion-irradiated magnetic Fe/Cr/Fe trilayers. Physical Review B, 2011, 84, .	3.2	7
167	Optical detection of vortex spin-wave eigenmodes in microstructured ferromagnetic disks. Physical Review B, 2011, 84, .	3.2	28
168	Variable damping and coherence in a high-density magnon gas. Physical Review B, 2011, 83, .	3.2	10
169	Employing magnonic crystals to dictate the characteristics of auto-oscillatory spin-wave systems. Journal of Physics: Conference Series, 2011, 303, 012007.	0.4	6
170	Spin-wave tunnelling through a mechanical gap. Europhysics Letters, 2010, 90, 27003.	2.0	28
171	Magnonic crystal based forced dominant wavenumber selection in a spin-wave active ring. Applied Physics Letters, 2010, 96, .	3.3	36
172	Wide-range wavevector selectivity of magnon gases in Brillouin light scattering spectroscopy. Review of Scientific Instruments, 2010, 81, 073902.	1.3	52
173	Enhancement of the spin pumping efficiency by spin wave mode selection. Applied Physics Letters, 2010, 97, .	3.3	131
174	Reverse Doppler effect of magnons with negative group velocity scattered from a moving Bragg grating. Physical Review B, 2010, 81, .	3.2	49
175	Magnetic anisotropy, exchange and damping in cobalt-based full-Heusler compounds: an experimental review. Journal Physics D: Applied Physics, 2010, 43, 193001.	2.8	215
176	Magneto-optical investigation of epitaxial nonstoichiometric Co2MnGe thin films. Journal of Applied Physics, 2010, 107, 043912.	2.5	18
177	Non-resonant wave front reversal of spin waves used for microwave signal processing. Journal Physics D: Applied Physics, 2010, 43, 325001.	2.8	9
178	Tandem magneto-optical Kerr effect magnetometer for the study of quadratic effects. Journal of Physics: Conference Series, 2010, 200, 112010.	0.4	3
179	YIG magnonics. Journal Physics D: Applied Physics, 2010, 43, 264002.	2.8	1,024
180	Note: Probing quadratic magneto-optical Kerr effects with a dual-beam system. Review of Scientific Instruments, 2010, 81, 026105.	1.3	16

#	Article	IF	Citations
181	Nondiffractive Subwavelength Wave Beams in a Medium with Externally Controlled Anisotropy. Physical Review Letters, 2010, 104, 197203.	7.8	102
182	Analytical expression of the magneto-optical Kerr effect and Brillouin light scattering intensity arising from dynamic magnetization. Journal Physics D: Applied Physics, 2010, 43, 325004.	2.8	20
183	All-linear time reversal by a dynamic artificial crystal. Nature Communications, 2010, 1, 141.	12.8	159
184	Modeling of microwave-assisted switching in micron-sized magnetic ellipsoids. Physical Review B, 2009, 79, .	3.2	13
185	Structure, exchange stiffness, and magnetic anisotropy of Co2MnAlxSi1â^'x Heusler compounds. Journal of Applied Physics, 2009, 106, .	2.5	42
186	Spin-signal propagation in time-dependent noncollinear spin transport. Physical Review B, 2009, 79, .	3.2	11
187	A spin-wave frequency doubler by domain wall oscillation. Applied Physics Letters, 2009, 94, .	3.3	32
188	An electro-optic modulator-assisted wavevector-resolving Brillouin light scattering setup. Review of Scientific Instruments, 2009, 80, 053905.	1.3	6
189	Frequency-dependent reflection of spin waves from a magnetic inhomogeneity induced by a surface direct current. Applied Physics Letters, 2009, 94, .	3.3	16
190	All-optical detection of phase fronts of propagating spin waves in a Ni81Fe19 microstripe. Applied Physics Letters, 2009, 95, 182508.	3.3	57
191	Direct Current Control of Three Magnon Scattering Processes in Spin-Valve Nanocontacts. Physical Review Letters, 2009, 103, 157202.	7.8	41
192	Field-induced transition from parallel to perpendicular parametric pumping for a microstrip transducer. Applied Physics Letters, 2009, 94, .	3.3	31
193	Brillouin light scattering study of Co₂Cr_{0.6}Fe_{0.4}Al and Co₂FeAl Heusler compounds. Journal Physics D: Applied Physics, 2009, 42, 084004.	2.8	20
194	Determination of exchange constants of Heusler compounds by Brillouin light scattering spectroscopy: application to Co₂MnSi. Journal Physics D: Applied Physics, 2009, 42, 084005.	2.8	47
195	Design and optimization of one-dimensional ferrite-film based magnonic crystals. Journal of Applied Physics, 2009, 105, .	2.5	70
196	Cluster issue on Heusler compounds and devices. Journal Physics D: Applied Physics, 2009, 42, 080301-080301.	2.8	18
197	Parametrically stimulated recovery of a microwave signal using standing spin-wave modes of a magnetic film. Physical Review B, 2009, 79, .	3.2	19
198	Generation of spin-wave pulse trains by current-controlled magnetic mirrors. Applied Physics Letters, 2009, 94, .	3.3	19

#	Article	IF	Citations
199	A current-controlled, dynamic magnonic crystal. Journal Physics D: Applied Physics, 2009, 42, 205005.	2.8	158
200	Scattering of surface and volume spin waves in a magnonic crystal. Applied Physics Letters, 2009, 94, .	3.3	117
201	Magnetic domain-wall motion by propagating spin waves. Applied Physics Letters, 2009, 94, .	3.3	134
202	Spin-wave propagation in a microstructured magnonic crystal. Applied Physics Letters, 2009, 95, .	3.3	168
203	Phase sensitive Brillouin scattering measurements with a novel magneto-optic modulator. Review of Scientific Instruments, 2009, 80, 043903.	1.3	19
204	Improvement of structural, electronic, and magnetic properties of Co2MnSi thin films by He+ irradiation. Applied Physics Letters, 2009, 94, 152508.	3.3	7
205	Exchange stiffness in the Co₂FeSi Heusler compound. Journal Physics D: Applied Physics, 2009, 42, 232001.	2.8	28
206	Brillouin Light Scattering Investigations Î¿f Magnetic and Elastic Properties in MBE Grown Trilayer Mo/Co/Au Systems. Acta Physica Polonica A, 2009, 115, 213-216.	0.5	1
207	Dissipation characteristics of quantized spin waves in nano-scaled magnetic ring structures. Journal Physics D: Applied Physics, 2008, 41, 164017.	2.8	14
208	Signal propagation in time-dependent spin transport. Physical Review B, 2008, 78, .	3.2	16
209	Realization of spin-wave logic gates. Applied Physics Letters, 2008, 92, .	3.3	584
210	Scattering of backward spin waves in a one-dimensional magnonic crystal. Applied Physics Letters, 2008, 93, .	3.3	182
211	Formation of Guided Spin-Wave Bullets in Ferrimagnetic Film Stripes. Physical Review Letters, 2008, 101, 137204.	7.8	22
212	Microwave spectral analysis by means of nonresonant parametric recovery of spin-wave signals in a thin magnetic film. Applied Physics Letters, 2008, 92, 162514.	3.3	16
213	Phase reciprocity of spin-wave excitation by a microstrip antenna. Physical Review B, 2008, 77, .	3.2	146
214	Modification of the thermal spin-wave spectrum in a Ni₈₁Fe₁₉stripe by a domain wall. Journal Physics D: Applied Physics, 2008, 41, 164008.	2.8	12
215	Observation of Coherence and Partial Decoherence of Quantized Spin Waves in Nanoscaled Magnetic Ring Structures. Physical Review Letters, 2008, 100, 047204.	7.8	54
216	Probing of a parametrically pumped magnon gas with a nonresonant packet of traveling spin waves. Applied Physics Letters, 2008, 93, .	3.3	10

#	Article	IF	Citations
217	Direct observation of domain wall structures in curved permalloy wires containing an antinotch. Journal of Applied Physics, 2008, 103, .	2.5	39
218	Exchange interaction and magnetic domain formation in periodically inhomogeneous magnetic media. Physical Review B, 2008, 77, .	3.2	10
219	Ultrafast magnetization processes. Journal Physics D: Applied Physics, 2008, 41, 160301-160301.	2.8	3
220	Influence of the L21 ordering degree on the magnetic properties of Co2MnSi Heusler films. Journal of Applied Physics, 2008, 103, .	2.5	63
221	Interfacial spin order in exchange biased systems. Journal of Applied Physics, 2008, 104, .	2.5	20
222	Spin Dynamics in Magnetic Nanostructures: Micro-Brillouin Light Scattering Spectroscopy. , 2008, , 1-6.		1
223	Spin-Wave Ferromagnetic Film Combiner as a NOT Logic Gate. Journal of Nanoelectronics and Optoelectronics, 2008, 3, 69-71.	0.5	22
224	Ion beam induced modification of exchange interaction and spinâ€"orbit coupling in the Co2FeSi Heusler compound. Journal Physics D: Applied Physics, 2007, 40, 1558-1562.	2.8	13
225	Microwave assisted switching in a Ni81Fe19 ellipsoid. Applied Physics Letters, 2007, 90, 062503.	3.3	69
226	Publisher's Note: Resonant and nonresonant scattering of dipole-dominated spin waves from a region of inhomogeneous magnetic field in a ferromagnetic film [Phys. Rev. B76, 184419 (2007)]. Physical Review B, 2007, 76, .	3.2	0
227	Kerr microscopy studies of microwave assisted switching. Journal of Applied Physics, 2007, 102, 063913.	2.5	25
228	Shaping of microwave pulses using phase-sensitive spin-wave amplifier. Applied Physics Letters, 2007, 90, 022502.	3.3	6
229	New materials with high spin polarization: half-metallic Heusler compounds. Journal Physics D: Applied Physics, 2007, 40, .	2.8	34
230	Linear and nonlinear phase accumulation of backward volume magnetostatic spin waves in yttrium-iron-garnet spin-wave waveguides. Europhysics Letters, 2007, 77, 57002.	2.0	5
231	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
232	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, .	3.2	68
233	Huge quadratic magneto-optical Kerr effect and magnetization reversal in the Co2FeSi Heusler compound. Journal Physics D: Applied Physics, 2007, 40, 1563-1569.	2.8	79
234	Induced anisotropies in exchange-coupled systems on rippled substrates. Physical Review B, 2007, 75, .	3.2	66

#	Article	IF	Citations
235	Thermally excited spin wave modes in synthetic antiferromagnetic stripes. Journal of Magnetism and Magnetic Materials, 2007, 310, 1949-1951.	2.3	8
236	Ion-beam induced magnetic nanopatterning of interlayer exchange coupled Fe/Cr/Fe trilayers. Journal of Magnetism and Magnetic Materials, 2007, 310, 2353-2355.	2.3	4
237	Amorphous Carbon Coatings Inhibit Crystalline Biofilm Formation on Urological Implants. Plasma Processes and Polymers, 2007, 4, S386-S391.	3.0	27
238	Structural and chemical phase transitions in tungsten carbide films evidenced by the analysis of their stiffness tensors. Journal of Applied Physics, 2006, 100, 073513.	2.5	12
239	Orthogonal exchange bias field directions in exchange bias microstructures. Applied Physics Letters, 2006, 88, 192510.	3.3	3
240	A crossed coplanar waveguide design for ultrafast magnetization switching utilizing polymer insulation layers. Applied Physics Letters, 2006, 88, 122510.	3.3	0
241	Spin-wave eigenmodes of an infinite thin film with periodically modulated exchange bias field. Applied Physics Letters, 2006, 88, 112504.	3.3	25
242	Spin-lattice relaxation phenomena in manganite La 0.7 Sr 0.3 MnO 3 thin films. Europhysics Letters, 2006, 73, 285-291.	2.0	8
243	Boseâ€"Einstein condensation of quasi-equilibrium magnons at room temperature under pumping. Nature, 2006, 443, 430-433.	27.8	732
244	High-spin polarization of Heusler alloys. Journal Physics D: Applied Physics, 2006, 39, .	2.8	27
245	Parametric generation of soliton-like spin wave pulses in ferromagnetic thin-film ring resonators. Journal of Experimental and Theoretical Physics, 2006, 102, 497-508.	0.9	8
246	Real-time evidence of two-magnon scattering in exchange-coupled bilayers. Journal of Applied Physics, 2006, 99, 08J308.	2.5	9
247	Micromagnetism and magnetization reversal of embedded ferromagnetic elements. Physical Review B, 2006, 74, .	3.2	8
248	Microwave assisted switching in Ni81 Fe19 elements. , 2006, , .		1
249	Phase-sensitive Brillouin light scattering spectroscopy from spin-wave packets. Applied Physics Letters, 2006, 89, 063506.	3.3	57
250	Two-dimensional microwave nonlinear spin-wave pulses in in-plane confided magnetic films. , 2006, , .		0
251	Domain structure during magnetization reversal of PtMnâˆ•CoFe exchange bias micropatterned lines. Journal of Applied Physics, 2006, 100, 043918.	2.5	10
252	Phase-Sensitive Brillouin Light Scattering Spectroscopy. , 2006, , .		0

#	Article	IF	Citations
253	Exchange bias on rippled substrates Â¢?? step induced uniaxial versus unidirectional anisotropy. , 2006, , .		0
254	Magnetic anisotropies and magnetization reversal of the Co2Cr0.6Fe0.4Al Heusler compound. Journal of Applied Physics, 2006, 100, 103904.	2.5	28
255	Magneto-optical spectroscopic scatterometry for analyzing patterned magnetic nanostructures. Journal of the Magnetics Society of Japan, 2006, 30, 630-636.	0.4	4
256	All-optical probe of magnetization dynamics in exchange biased bilayers on the picosecond timescale. European Physical Journal B, 2005, 45, 243-248.	1.5	11
257	Structural analysis of ion irradiated polycrystalline NiFe/FeMn exchange bias systems. European Physical Journal B, 2005, 45, 213-218.	1.5	4
258	Spin-Wave Eigenmodes of Permalloy Squares with a Closure Domain Structure. Physical Review Letters, 2005, 94, 057202.	7.8	133
259	Magnetic patterning of Feâˆ•Crâˆ•Fe(001) trilayers by Ga+ ion irradiation. Journal of Applied Physics, 2005, 98, 093503.	2.5	16
260	Real-time temperature dynamics in exchange-biased bilayers upon laser excitation. IEEE Transactions on Magnetics, 2005, 41, 1089-1092.	2.1	6
261	Domain structure of magnetically micro-patterned PtMn/NiFe exchange bias bilayers. IEEE Transactions on Magnetics, 2005, 41, 3610-3612.	2.1	10
262	Phase shift of spin waves traveling through a 180/spl deg/ Bloch-domain wall. IEEE Transactions on Magnetics, 2005, 41, 3094-3096.	2.1	59
263	Analysis of the NiFe/FeMn/Cu/Co/Cu/NiFe/FeMn/Cu/Co/Cu/NiFe/FeMn/Cu/Co/Cu/

#	Article	IF	Citations
271	Magnetic domain structure of micro-patterned PtMn/NiFe exchange bias bilayers. , 2005, , .		0
272	Two-dimensional patterns of spin-wave radiation by rectangular spin-valve elements. Journal of Applied Physics, 2005, 97, 10A717.	2.5	19
273	Fe(001) on vicinal Au(001): correlation of topography and magnetic surface anisotropy. Journal Physics D: Applied Physics, 2005, 38, 1047-1054.	2.8	4
274	Parametric Generation of Forward and Phase-Conjugated Spin-Wave Bullets in Magnetic Films. Physical Review Letters, 2005, 94, 167202.	7.8	38
275	Evaluation of the quality of Permalloy gratings by diffracted magneto-optical spectroscopy. Optics Express, 2005, 13, 4651.	3.4	11
276	Spin-wave excitations in finite rectangular elements ofNi80Fe20. Physical Review B, 2005, 72, .	3.2	143
277	Spin-wave logical gates. Applied Physics Letters, 2005, 87, 153501.	3.3	403
278	On the mechanism of irradiation-enhanced exchange bias. Europhysics Letters, 2004, 66, 430-434.	2.0	19
279	The use of guided surface acoustic resonances in the determination of the thin film elastic tensor. Applied Physics Letters, 2004, 84, 5356-5358.	3.3	2
280	Magnetic patterning of exchange-coupled multilayers. Applied Physics Letters, 2004, 84, 2853-2855.	3.3	21
281	Self-Generation of Two-Dimensional Spin-Wave Bullets. Physical Review Letters, 2004, 92, 117203.	7.8	48
282	Radiation of spin waves by a single micrometer-sized magnetic element. Applied Physics Letters, 2004, 85, 2866-2868.	3.3	97
283	General methods for the determination of the stiffness tensor and mass density of thin films using Brillouin light scattering:â€ƒStudy of tungsten carbide films. Physical Review B, 2004, 69, .	3.2	18
284	Correlation between topography and magnetic surface anisotropy in epitaxialFefilms on vicinal-to-(001)Ausurfaces with different step orientation. Physical Review B, 2004, 70, .	3.2	7
285	Black soliton formation from phase-adjusted spin wave packets. Journal of Applied Physics, 2004, 95, 6607-6609.	2.5	10
286	Separation of the first- and second-order contributions in magneto-optic Kerr effect magnetometry of epitaxial FeMn/NiFe bilayers. Journal of Applied Physics, 2004, 95, 5324-5329.	2.5	17
287	Surface acoustic waves for the characterization of BN-coated fibres observed by Brillouin light scattering. Analytical and Bioanalytical Chemistry, 2004, 379, 594-8.	3.7	0
288	Magneto-optical spectroscopy on permalloy wires in 0th and 1st diffraction orders. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1670-1671.	2.3	3

#	Article	IF	Citations
289	Tunneling of Dipolar Spin Waves through a Region of Inhomogeneous Magnetic Field. Physical Review Letters, 2004, 93, 047201.	7.8	107
290	Characterization of permalloy wires by optical and magneto-optical spectroscopy. Transactions of the Magnetics Society of Japan, 2004, 4, 282-285.	0.5	1
291	Ion irradiation of exchange bias systems for magnetic sensor applications. Applied Physics A: Materials Science and Processing, 2003, 77, 51-56.	2.3	29
292	Experimental observation of symmetry-breaking nonlinear modes in an active ring. Nature, 2003, 426, 159-162.	27.8	98
293	Parametric generation of solitonlike spin-wave pulses in ring resonators based on ferromagnetic films. JETP Letters, 2003, 77, 300-304.	1.4	9
294	Phase Coherent Precessional Magnetization Reversal in Microscopic Spin Valve Elements. Physical Review Letters, 2003, 90, 017201.	7.8	155
295	Collision properties of quasi-one-dimensional spin wave solitons and two-dimensional spin wave bullets. Chaos, 2003, 13, 693-701.	2.5	29
296	Probing interface magnetism in the FeMn/NiFe exchange bias system using magnetic second-harmonic generation. Europhysics Letters, 2003, 63, 819-825.	2.0	33
297	Phase control of nonadiabatic parametric amplification of spin wave packets. Journal of Applied Physics, 2003, 93, 8585-8587.	2.5	14
298	Formation of envelope solitons from parametrically amplified and conjugated spin wave pulses. Journal of Applied Physics, 2003, 93, 8758-8760.	2.5	6
299	Control of Interlayer Exchange Coupling inFe/Cr/FeTrilayers by Ion Beam Irradiation. Physical Review Letters, 2003, 90, 097201.	7.8	58
300	Phase diagrams and energy barriers of exchange-biased bilayers with additional anisotropies in the ferromagnet. Physical Review B, 2003, 67, .	3.2	17
301	Spin-wave wells with multiple states created in small magnetic elements. Applied Physics Letters, 2003, 82, 607-609.	3.3	90
302	Induced fourfold anisotropy and bias in compensated NiFe/FeMn double layers. Physical Review B, 2003, 68, .	3.2	19
303	MFM Study of Locally Modified Interlayer Exchange Coupling in Fe/Cr/Fe Trilayers. AIP Conference Proceedings, 2003, , .	0.4	0
304	Switching dynamics and write endurance of magnetic tunnel junctions. Journal of Applied Physics, 2002, 91, 543.	2.5	9
305	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
306	Angular dependence and phase diagrams of exchange-coupled epitaxialNi81Fe19/Fe50Mn50(001)bilayers. Physical Review B, 2002, 65, .	3.2	45

#	Article	IF	Citations
307	Brillouin light scattering study on the elastic properties of thick sputteredc-BN films. Journal of Applied Physics, 2002, 91, 2729-2736.	2.5	15
308	Tuning exchange bias and coercive fields in ferromagnet/antiferromagnet bilayers with ion irradiation. Journal of Applied Physics, 2002, 91, 6896.	2.5	39
309	Nonlinear Spinwaves in One- and Two-Dimensional Magnetic Waveguides. , 2002, , 35-64.		8
310	Non-monotonic step-induced magnetic anisotropy of Fe films prepared on vicinal Au(001) surfaces with different step orientations. Journal of Physics Condensed Matter, 2002, 14, 8947-8953.	1.8	4
311	Spinwaves in Laterally Confined Magnetic Structures. , 2002, , 65-92.		45
312	Spin Wave Wells in Nonellipsoidal Micrometer Size Magnetic Elements. Physical Review Letters, 2002, 88, 047204.	7.8	373
313	Confined dynamic excitations in structured magnetic media. IEEE Transactions on Magnetics, 2002, 38, 2502-2507.	2.1	7
314	Anisotropy of magneto-optical spectra in ultrathin Fe/Au/Fe bilayers. Journal of Applied Physics, 2002, 91, 8246.	2.5	8
315	Auger electron spectroscopic studies of annealing effects at Fe/FeOx/Al and Co/CoOx/Al interfaces. Surface Science, 2002, 497, L55-L59.	1.9	1
316	Effective dipolar boundary conditions for dynamic magnetization in thin magnetic stripes. Physical Review B, 2002, 66, .	3.2	297
317	Strength-porosity relationship of nanoporous MSSQ films characterised by Brillouin Light Scattering and Surface Acoustic Wave Spectroscopy. Materials Research Society Symposia Proceedings, 2002, 716, 7171.	0.1	1
318	Magnetization Reversal of Exchange Bias Double Layers Magnetically Patterned by Ion Irradiation. Physica Status Solidi A, 2002, 189, 439-447.	1.7	32
319	Ultrafast magnetic switching. Nature, 2002, 418, 493-495.	27.8	31
320	Magnetic micropatterning of FeNi/FeMn exchange bias bilayers by ion irradiation. Journal of Applied Physics, 2001, 89, 6606-6608.	2.5	58
321	Spin wave quantization in laterally confined magnetic structures (invited). Journal of Applied Physics, 2001, 89, 7091-7095.	2.5	47
322	Magnetooptic ellipsometry in multilayers at arbitrary magnetization. Optics Express, 2001, 9, 121.	3.4	59
323	Comparative study of the epitaxial growth of Cu on MgO(001) and on hydrogen terminated Si(001). Surface Science, 2001, 481, 87-96.	1.9	28
324	Morphology of epitaxial metallic layers on MgO substrates: influence of submonolayer carbon contamination. Surface Science, 2001, 495, 68-76.	1.9	24

#	Article	IF	Citations
325	Elastic properties of indium tin oxide films. Thin Solid Films, 2001, 398-399, 465-470.	1.8	28
326	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
327	Brillouin light scattering studies of confined spin waves: linear and nonlinear confinement. Physics Reports, 2001, 348, 441-489.	25.6	493
328	Magneto-dipole coupling in arrays of micron-size rectangular magnetic elements. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1835-1837.	2.3	16
329	Time domain MOKE detection of spin wave modes and precession control for magnetization switching in ferrite films. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 507-509.	2.3	5
330	Ion oxidation mechanisms controlling the formation of barriers in magnetic tunnel junctions. Journal of Applied Physics, 2001, 89, 6656-6658.	2.5	13
331	Switching behavior of Stoner-like magnetic thin film elements. Journal of Applied Physics, 2000, 87, 6274-6276.	2.5	6
332	Space- and time-resolved Brillouin light scattering from nonlinear spin-wave packets. Ultrasonics, 2000, 38, 443-449.	3.9	16
333	Characterization of elastic properties of hard carbon and boron nitride films using the Brillouin light scattering technique. Thin Solid Films, 2000, 368, 216-221.	1.8	11
334	Exchange bias effect and anisotropy analysis of FM/AF bilayers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 76, 59-62.	3.5	5
335	Magnetization reversal in ultrashort magnetic field pulses. Journal of Magnetism and Magnetic Materials, 2000, 218, 165-176.	2.3	13
336	Modification of the exchange bias effect by He ion irradiation. IEEE Transactions on Magnetics, 2000, 36, 2647-2649.	2.1	25
337	Brillouin light scattering from layered magnetic structures. , 2000, , 174-289.		28
338	Growth and magnetic properties of Fe films on vicinal to (001) substrates. Journal of Applied Physics, 2000, 87, 6092-6094.	2.5	5
339	Structure and magnetic properties of exchange-biased polycrystalline Fe/MnPd bilayers. Physical Review B, 2000, 62, 8654-8657.	3.2	22
340	Spatial and spatiotemporal self-focusing of spin waves in garnet films observed by space- and time-resolved Brillouin light scattering. Journal of Applied Physics, 2000, 87, 5088-5090.	2.5	16
341	Suppression of exchange bias by ion irradiation. Applied Physics Letters, 2000, 76, 1057-1059.	3.3	97
342	Successful suppression of magnetization precession after short field pulses. IEEE Transactions on Magnetics, 2000, 36, 2764-2766.	2.1	7

#	Article	IF	Citations
343	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
344	Quantized spin wave modes in micron size magnetic disks. Journal of Applied Physics, 2000, 87, 5082-5084.	2.5	12
345	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.	3.2	80
346	Switching behavior of a Stoner particle beyond the relaxation time limit. Physical Review B, 2000, 61, 3410-3416.	3.2	176
347	Suppression of magnetic-field pulse-induced magnetization precession by pulse tailoring. Applied Physics Letters, 2000, 76, 2758-2760.	3.3	81
348	Brillouin light scattering from surface phonons in hexagonal and cubic boron nitride films. Diamond and Related Materials, 2000, 9, 1957-1964.	3.9	15
349	In-plane anomalies of the exchange bias field in Ni80Fe20/Fe50Mn50 bilayers on Cu(110). Journal of Applied Physics, 1999, 85, 6648-6651.	2.5	18
350	Biased switching of small magnetic particles. Applied Physics Letters, 1999, 75, 1143-1145.	3.3	32
351	Progress in multipass tandem Fabryâ€"Perot interferometry: I. A fully automated, easy to use, self-aligning spectrometer with increased stability and flexibility. Review of Scientific Instruments, 1999, 70, 1589-1598.	1.3	106
352	Enhanced coercivity of exchange-bias Fe/MnPd bilayers. Applied Physics Letters, 1999, 75, 707-709.	3.3	47
353	Collisions of Spin Wave Envelope Solitons and Self-Focused Spin Wave Packets in Yttrium Iron Garnet Films. Physical Review Letters, 1999, 82, 4320-4323.	7.8	34
354	Brillouin light scattering from quantized spin waves in micron-size magnetic wires. Physical Review B, 1999, 60, 15194-15200.	3.2	175
355	Elastic properties of thin h-BN films investigated by Brillouin light scattering. Thin Solid Films, 1999, 353, 137-143.	1.8	36
356	Epitaxial growth of metastable Pd(001) on BCC-Fe(001). Journal of Magnetism and Magnetic Materials, 1999, 198-199, 725-727.	2.3	7
357	Magnetic ordering and anisotropies of atomically layered Fe/Au(001) multilayers. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 348-350.	2.3	10
358	Inelastic light scattering in magnetic dots and wires. Journal of Magnetism and Magnetic Materials, 1999, 200, 706-719.	2.3	22
359	Spin-wave quantization and dynamic coupling in micron-size circular magnetic dots. Applied Physics Letters, 1999, 75, 3859-3861.	3.3	78
360	Arrays of Interacting Magnetic Dots and Wires: Static and Dynamic Properties. Journal of the Magnetics Society of Japan, 1999, 23, 670-675.	0.4	12

#	Article	IF	Citations
361	Spin waves and magnetic anisotropy in ultrathin (111)-oriented cubic films. Journal of Physics Condensed Matter, 1998, 10, 2171-2180.	1.8	11
362	Mode beating of spin wave beams in ferrimagnetic Lu/sub 2.04/Bi/sub 0.96/Fe/sub 5/O/sub 12/ films. IEEE Transactions on Magnetics, 1998, 34, 1381-1383.	2.1	22
363	Lateral Quantization of Spin Waves in Micron Size Magnetic Wires. Physical Review Letters, 1998, 81, 3968-3971.	7.8	202
364	Observation of Spatiotemporal Self-Focusing of Spin Waves in Magnetic Films. Physical Review Letters, 1998, 81, 3769-3772.	7.8	91
365	Brillouin light scattering investigations of exchange biased (110)-oriented NiFe/FeMn bilayers. Journal of Applied Physics, 1998, 83, 2863-2865.	2.5	45
366	Correlation between structure and magnetic anisotropies of Co on Cu(110). Physical Review B, 1998, 57, 5870-5878.	3.2	42
367	Absence of elastic anomalies for Co/Ni superlattices with oscillatory transport. Physical Review B, 1997, 55, 14074-14075.	3.2	4
368	Direct observation of two-dimensional self-focusing of spin waves in magnetic films. Physical Review B, 1997, 56, R8483-R8486.	3.2	43
369	Interface anisotropy and magnetization reversal in epitaxial Fe(001)/Pd double layers. Journal of Applied Physics, 1997, 81, 4466-4468.	2.5	6
370	Anisotropic magnetic coupling of permalloy micron dots forming a square lattice. Applied Physics Letters, 1997, 70, 2912-2914.	3.3	114
371	Brillouin light scattering investigations of structured permalloy films. Journal of Applied Physics, 1997, 81, 4993-4995.	2.5	52
372	Interface anisotropy and magnetization reversal in epitaxial Fe(001)/Pd double layers. Journal of Magnetism and Magnetic Materials, 1997, 165, 496-499.	2.3	0
373	Static and dynamic properties of patterned magnetic permalloy films. Journal of Magnetism and Magnetic Materials, 1997, 175, 10-15.	2.3	24
374	Structural relaxation and magnetic anisotropy in Co/Cu(001) films. Physical Review B, 1996, 54, 4075-4079.	3.2	74
375	Spin-wave propagation across periodically corrugated thin metallic ferromagnetic films. Journal of Magnetism and Magnetic Materials, 1996, 161, 199-202.	2.3	37
376	Magnetic exchange-coupling effects in asymmetric trilayer structures of MBE-grown Co/Cr/Fe. Physical Review B, 1996, 53, 11613-11620.	3.2	18
377	Suppression of the magnetocrystalline bulk anisotropy in thin epitaxial Co(110) films on Cu(110). Physical Review B, 1996, 53, R10548-R10551.	3.2	37
378	Ferromagnetism above room temperature in Mnâ€“Siâ€“C alloy films. Applied Physics Letters, 1996, 68, 3189-3190.	3.3	14

#	Article	IF	Citations
379	Magnetic Exchange Coupling in Asymmetric Trilayers of Co/Cr/Fe. Materials Research Society Symposia Proceedings, 1995, 384, 165.	0.1	0
380	Identification of magnetocrystalline and magnetoelastic anisotropy contributions in ultrathin epitaxial Co(110) films. Journal of Magnetism and Magnetic Materials, 1995, 148, 156-157.	2.3	27
381	Oscillatory Surface In-Plane Lattice Spacing during Growth of Co and of Cu on a Cu(001) Single Crystal. Physical Review Letters, 1995, 75, 4476-4479.	7.8	93
382	Elastic constants of WCâ€"a-C:H composite films studied by Brillouin spectroscopy. Physical Review B, 1994, 49, 13815-13819.	3.2	5
383	Magnetic anisotropies of ultrathin Co films on Cu(1 1 13) substrates. Physical Review B, 1994, 49, 3633-3636.	3.2	73
384	Interface analysis of (110)â€oriented Co/Pt superlattices with large magnetic anisotropies using xâ€ray diffraction. Journal of Applied Physics, 1994, 76, 908-913.	2.5	10
385	Exchange stiffness constant and wall energy density of amorphous GdTbâ€FeCo thin films. Journal of Applied Physics, 1994, 76, 1145-1149.	2.5	29
386	Exchange stiffness constant and effective gyromagnetic factor of Gd, Tb and Nd containing, amorphous rare earth-transition metal films. IEEE Transactions on Magnetics, 1994, 30, 4434-4436.	2.1	5
387	HCP-FCC Phase Transition in Co-Ni Alloys Studied With Magneto-Optical Kerr Spectroscopy. Materials Research Society Symposia Proceedings, 1994, 343, 351.	0.1	3
388	Effects of interfaces on magnetic properties of Co-based multilayers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 767-772.	0.6	6
389	Light Scattering Investigations of Magnetic Anisotropies in Ultrathin Epitaxial Co Films. Acta Physica Polonica A, 1994, 85, 179-193.	0.5	15
390	Spin Waves in Superlattices with Exchange Coupling between Nearest and Nextâ€Nearest Neighbours. Physica Status Solidi (B): Basic Research, 1993, 176, 465-475.	1.5	10
391	Oscillatory interlayer exchange coupling of Co/Ru and permalloy / Ru multilayers investigated by Brillouin light scattering. Journal of Magnetism and Magnetic Materials, 1993, 121, 270-274.	2.3	9
392	Spin wave dynamics and domain structure in exchange coupled FeNi multilayers. Journal of Magnetism and Magnetic Materials, 1993, 121, 303-305.	2.3	5
393	Magnetic anisotropies of ultrathin Co films on Cu(001) and Cu(1113) substrates. Journal of Magnetism and Magnetic Materials, 1993, 121, 483-486.	2.3	29
394	Effective-medium theory for finite magnetic multilayers: Effect of anisotropy on dipolar modes. Physical Review B, 1993, 47, 3225-3230.	3.2	22
395	Spin-wave propagation on imperfect ultrathin ferromagnetic films. Physical Review B, 1993, 47, 5072-5076.	3.2	32
396	Origin of very large in-plane anisotropies in (110)-oriented Co/Pd and Co/Pt coherent superlattices. Physical Review B, 1993, 47, 6126-6129.	3.2	34

#	Article	IF	Citations
397	Structural and Magnetic Properties of e-Beam Prepared Co_xPt_{1-x} Alloy Films. Materials Research Society Symposia Proceedings, 1993, 313, 387.	0.1	2
398	STUDY OF Co-BASED MULTILAYERS BY BRILLOUIN LIGHT SCATTERING. Journal of the Magnetics Society of Japan, 1993, 17, S1_17-22.	0.4	6
399	Oscillatory interlayer exchange coupling of Co/Ru multilayers investigated by Brillouin light scattering. Physical Review B, 1992, 46, 5810-5813.	3.2	39
400	Magnetic anisotropies of ultrathin Co(001) films on Cu(001). Physical Review Letters, 1992, 69, 3674-3677.	7.8	225
401	Reflection of spin waves by atomic steps. Physical Review B, 1992, 46, 10836-10840.	3.2	10
402	Surface-grating-induced zone folding and hybridization of surface acoustic modes. Physical Review Letters, 1992, 68, 2464-2467.	7.8	57
403	Spinwave dynamics in Feî—¸Ni double layers and multilayers. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1807-1808.	2.3	8
404	Characterization of large magnetic anisotropies in (100)- and (111)-oriented Co/Pt multilayers by Brillouin light scattering. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1863-1864.	2.3	17
405	The cross-over from two to three dimensional behavior in layered ferromagnetic systems. Journal of Magnetism and Magnetic Materials, 1992, 104-107, 1868-1870.	2.3	5
406	Magnetic properties of Co/Pd multilayers determined by Brillouin light scattering and SQUID magnetometry. Journal of Applied Physics, 1991, 69, 2448-2454.	2.5	41
407	Dipole-exchange modes in multilayers with out-of-plane anisotropies. Physical Review B, 1991, 44, 5095-5104.	3.2	20
408	Determination of the sound velocities and the complete set of elastic constants for Bi2Sr2CaCu2O8+Î´ single crystals using Brillouin light scattering. Physica C: Superconductivity and Its Applications, 1991, 179, 101-106.	1.2	39
409	Evidence for collective exchange modes in Co/Pd multilayers observed by Brillouin light scattering. Journal of Magnetism and Magnetic Materials, 1991, 93, 211-214.	2.3	5
410	In-situ determination of magnetic anisotropies of thin epitaxial Fe(110) and Co(0001) films on W(110) using Brillouin light scattering. Journal of Magnetism and Magnetic Materials, 1991, 93, 225-228.	2.3	18
411	Dipole-exchange modes in single thin films and multilayers with large out-of-plane anisotropies. Journal of Magnetism and Magnetic Materials, 1991, 93, 616-620.	2.3	7
412	Influence of the interface quality on the elastic properties of Co/Au multilayers investigated by Brillouin light scattering. Journal of Applied Physics, 1991, 69, 938-942.	2.5	17
413	Brillouin light scattering on chemicalâ€vaporâ€deposited polycrystalline diamond: Evaluation of the elastic moduli. Applied Physics Letters, 1991, 59, 1055-1057.	3.3	54
414	Longâ€wavelength spin waves in structures with large outâ€ofâ€plane anisotropies. Journal of Applied Physics, 1991, 69, 5718-5720.	2.5	4

#	Article	IF	Citations
415	Evidence for collective exchange modes in Co/Pd multilayers observed by Brillouin light scattering (abstract). Journal of Applied Physics, 1991, 69, 5740-5740.	2.5	0
416	Interface quality and magnetic properties of Co/Au multilayers investigated by Brillouin light scattering. Journal of Applied Physics, 1991, 69, 5307-5309.	2.5	7
417	Dipolar interactions and the magnetic behavior of two-dimensional ferromagnetic systems. Physical Review B, 1991, 44, 12417-12423.	3.2	54
418	Dipole-exchange modes in thin ferromagnetic films with strong out-of-plane anisotropies. Physical Review B, 1991, 43, 3532-3539.	3.2	30
419	Structural Dependence of the Elastic Constants of Polymeric Langmuir-Blodgett Films Studied Using Brillouin Scattering. Materials Research Society Symposia Proceedings, 1990, 188, 355.	0.1	5
420	Determination of the elastic constants of a polymeric Langmuir-Blodgett film by Brillouin spectroscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1990, 5, 173-176.	3.5	12
421	Experimental evidence for the existence of exchange-dominated collective spin-wave excitations in multilayers. Physical Review B, 1990, 42, 6839-6841.	3.2	25
422	Structural and magnetic properties of Ti/Co multilayers. Journal of Applied Physics, 1990, 67, 4910-4912.	2.5	20
423	Dispersion and localization of guided acoustic modes in a Langmuir-Blodgett film studied by surface-plasmon-polariton-enhanced Brillouin scattering. Physical Review B, 1990, 41, 5382-5387.	3.2	9
424	Spin-wave calculations for multilayered structures. Physical Review B, 1990, 41, 530-540.	3.2	244
425	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
426	Elastic properties of unpolymerized and polymerized cadmium octadecyl/fumarate and cadmium octadecyl/maleate Langmuirâ€"Blodgett films determined by Brillouin scattering. Journal of Chemical Physics, 1989, 91, 1882-1884.	3.0	5
427	Elastic anisotropies in 22-tricosenoic acid Langmuir-Blodgett films: surface pressure and dipping direction. Journal of Physics Condensed Matter, 1989, 1, 3663-3669.	1.8	2
428	Sound velocities of YBa 2 Cu 3 O 7â˜Î´ and Bi 2 Sr 2 CaCu 2 O x single crystals measured by Brillouin spectroscopy. Physica C: Superconductivity and Its Applications, 1989, 162-164, 1073-1074.	1.2	31
429	Elastic properties of Na+ Î²â€³-alumina measured by brillouin spectroscopy. Solid State Communications, 1989, 70, 15-18.	1.9	7
430	The angular dependence of surface-enhanced Brillouin scattering from silver in double resonance configuration. Solid State Communications, 1989, 70, 237-239.	1.9	5
431	Sound velocities of YBa2Cu3O7â˜Î´ single crystals measured by Brillouin spectroscopy. Solid State Communications, 1989, 69, 1135-1137.	1.9	35
432	Brillouin light scattering from spin waves in magnetic layers and multilayers. Applied Physics A: Solids and Surfaces, 1989, 49, 589-598.	1.4	34

#	Article	IF	Citations
433	A new class of guided longitudinal acoustic phonons in ZnSe films on GaAs found by surface Brillouin scattering. Surface Science, 1989, 211-212, 387-393.	1.9	10
434	In-Situ investigation of Structure and Magnetic Properties of the Epitaxial System Pd(111)/Fe(110) on W(110) by Means of Brillouin Spectroscopy. Materials Research Society Symposia Proceedings, 1989, 151, 199.	0.1	1
435	Metallische Ãœbergitter. Physik Journal, 1989, 45, 447-452.	0.1	0
436	Fe/Pd second-order superlattices. Solid State Communications, 1988, 68, 201-204.	1.9	7
437	Brillouin scattering from collective spin waves in magnetic superlattices (invited). Journal of Applied Physics, 1988, 63, 3880-3884.	2.5	61
438	Elastic properties of epitaxial ZnSe(001) films on GaAs measured by Brillouin spectroscopy. Journal of Applied Physics, 1988, 63, 1914-1916.	2.5	44
439	Calculation of spin waves in multilayered structures including interface anisotropies and exchange contributions. Physical Review B, 1988, 37, 9885-9888.	3.2	69
440	Evidence for the existence of guided longitudinal acoustic phonons in ZnSe films on GaAs. Physical Review Letters, 1988, 60, 832-835.	7.8	76
441	Spinâ€wave properties in multilayered structures including interface anisotropies and exchange (abstract). Journal of Applied Physics, 1988, 64, 6121-6121.	2.5	0
442	Collective spin waves in Fe/Pd and Fe/W multilayers. Journal of Applied Physics, 1987, 61, 4308-4310.	2.5	5
443	In situBrillouin scattering from surface-anisotropy-dominated Damon-Eshbach modes in ultrathin epitaxial Fe(110) layers. Physical Review B, 1987, 36, 2450-2453.	3.2	72
444	Strong influence of magnetic surface anisotropies on the Damonâ€Eshbach mode frequency of ultrathin Fe(110) layers (abstract). Journal of Applied Physics, 1987, 61, 3756-3756.	2.5	7
445	Construction and performance of a Brillouin scattering set-up using a triple-pass tandem Fabry-Perot interferometer. Journal of Physics E: Scientific Instruments, 1987, 20, 656-659.	0.7	153
446	Elastic surface wave anomalies near the cluster-to-layer transition of Au on NaCl. Solid State Communications, 1986, 60, 649-652.	1.9	17
447	Experimental Identification of Charge Relaxation Rates in Intermediate-Valence Compounds by Phonon Spectroscopy. Physical Review Letters, 1986, 57, 1040-1043.	7.8	16
448	Localized phonon modes in Fe-Pd multilayer structures. Physical Review B, 1986, 34, 9004-9007.	3.2	45
449	Collective spin waves in Fe-Pd and Fe-W multilayer structures. Physical Review B, 1986, 34, 9000-9003.	3.2	43
450	Light scattering in metallic compounds and thin supported layers. European Physical Journal B, 1985, 60, 423-432.	1.5	5

#	Article	IF	Citations
451	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
452	Elastic and magnetoelastic effects in CeB6. Journal of Magnetism and Magnetic Materials, 1985, 47-48, 321-322.	2.3	6
453	Elastic anomalies in intermediate valence rare-earth intermetallics. Journal of Magnetism and Magnetic Materials, 1985, 47-48, 312-314.	2.3	28
454	New crystal field level scheme of CeB6deduced from Raman and neutron spectroscopy (abstract). Journal of Applied Physics, 1985, 57, 3769-3769.	2.5	4
455	Crystal-field excitations inCeB6studied by Raman and neutron spectroscopy. Physical Review B, 1984, 30, 4052-4054.	3.2	239
456	Elastic and magnetoelastic effects in CeB6. European Physical Journal B, 1984, 58, 31-38.	1.5	86
457	Dielectric function of SmS. Solid State Communications, 1983, 47, 681-682.	1.9	11
458	Optical conductivity of CePd3, YPd3 and PrPd3. Solid State Communications, 1982, 43, 891-894.	1.9	19
459	Nanoporous polymer film properties from Brillouin light scattering and surface acoustic wave spectroscopy. , 0, , .		0
460	Role of ion implantation in exchange bias systems. , 0, , .		0
461	Spin wave wells with multiple states created in small magnetic elements. , 0, , .		0
462	Spin-Wave Excitations in Finite Rectangular Elements. , 0, , 57-103.		29