

Thibaut Devolder

List of Publications by Year in descending order

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179
papers

6,322
citations

81900

39
h-index

79698

73
g-index

179
all docs

179
docs citations

179
times ranked

4150
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring a population of spin waves from the electrical noise of an inductively coupled antenna. Physical Review B, 2022, 105, .	3.2	4
2	Stochastic Processes in Magnetization Reversal Involving Domain-Wall Motion in Magnetic Memory Elements. Physical Review Applied, 2021, 15, .	3.8	7
3	Imaging non-collinear antiferromagnetic textures via single spin relaxometry. Nature Communications, 2021, 12, 767.	12.8	49
4	Nanoscale domain wall devices with magnetic tunnel junction read and write. Nature Electronics, 2021, 4, 392-398.	26.0	46
5	Spin-torque induced wall motion in perpendicularly magnetized discs: Ballistic versus oscillatory behavior. Physical Review B, 2021, 103, .	3.2	6
6	Quantitative study of the response of a single NV defect in diamond to magnetic noise. Physical Review B, 2021, 103, .	3.2	12
7	Nanocontact vortex oscillators based on $\text{Co}/\text{MnO}_2/\text{Pt}$ pseudo spin valves. Physical Review B, 2021, 103, .	3.2	6
8	Measuring the dispersion relations of spin wave bands using time-of-flight spectroscopy. Physical Review B, 2021, 103, .	3.2	6
9	Real-time Hall-effect detection of current-induced magnetization dynamics in ferrimagnets. Nature Communications, 2021, 12, 656.	12.8	26
10	Static and dynamic magnetic properties of CoPt/NiFe bilayers: experiment and modelling. Journal Physics D: Applied Physics, 2020, 53, 075001.	2.8	1
11	Reconfigurable submicrometer spin-wave majority gate with electrical transducers. Science Advances, 2020, 6, .	10.3	50
12	Back hopping in spin transfer torque switching of perpendicularly magnetized tunnel junctions. Physical Review B, 2020, 102, .	3.2	19
13	Backward volume vs Damon-Eshbach: A traveling spin wave spectroscopy comparison. Journal of Applied Physics, 2020, 127, .	2.5	16
14	Pattern generation and symbolic dynamics in a nanocontact vortex oscillator. Nature Communications, 2020, 11, 601.	12.8	10
15	BPZT HBARs for Magnetoelastic Stress Generation at GHz Frequencies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1284-1290.	3.0	4
16	Issues in growing Heusler compounds in thin films for spintronic applications. Journal of Applied Physics, 2020, 128, 241102.	2.5	18
17	Electrical spectroscopy of forward volume spin waves in perpendicularly magnetized materials. Physical Review Research, 2020, 2, .	3.6	16
18	Modulation and phase-locking in nanocontact vortex oscillators. Physical Review B, 2019, 100, .	3.2	5

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19	Chaos in Magnetic Nanocontact Vortex Oscillators. Physical Review Letters, 2019, 123, 147701.	7.8	24
20	Offset fields in perpendicularly magnetized tunnel junctions. Journal Physics D: Applied Physics, 2019, 52, 274001.	2.8	12
21	Effect of Tantalum Spacer Thickness and Deposition Conditions on the Properties of MgO/CoFeB/Ta/CoFeB/MgO Free Layers. IEEE Magnetics Letters, 2019, 10, 1-4.	1.1	10
22	Gilbert damping of high anisotropy Co/Pt multilayers. Journal Physics D: Applied Physics, 2018, 51, 135002.	2.8	13
23	Material Developments and Domain Wall-Based Nanosecond-Scale Switching Process in Perpendicularly Magnetized STT-MRAM Cells. IEEE Transactions on Magnetics, 2018, 54, 1-9.	2.1	22
24	Scaled spintronic logic device based on domain wall motion in magnetically interconnected tunnel junctions. , 2018, , .		7
25	Instant-On Spin Torque in Noncollinear Magnetic Tunnel Junctions. Physical Review Applied, 2018, 10, .	3.8	14
26	Engineering Domain-Wall Motion in $\text{Co}/\text{Fe}/\text{MgO}$ Ultrathin Films with Perpendicular Anisotropy Using Patterned Substrates with Subnanometer Step Modulation. Physical Review Applied, 2018, 10, .		4
27	Size dependence of spin-torque switching in perpendicular magnetic tunnel junctions. Applied Physics Letters, 2018, 113, .	3.3	26
28	Chain of magnetic tunnel junctions as a spintronic memristor. Journal of Applied Physics, 2018, 124, .	2.5	18
29	Spin-Wave Emission by Spin-Orbit-Torque Antennas. Physical Review Applied, 2018, 10, .	3.8	21
30	Nonreciprocal flexural dynamics of Dzyaloshinskii domain walls. Physical Review B, 2018, 98, .	3.2	1
31	Seed layer impact on structural and magnetic properties of [Co/Ni] multilayers with perpendicular magnetic anisotropy. Journal of Applied Physics, 2017, 121, .	2.5	14
32	Nanocontact based spin torque oscillators with two free layers. Journal Physics D: Applied Physics, 2017, 50, 085002.	2.8	5
33	Control of Interlayer Exchange Coupling and Its Impact on Spin-Torque Switching of Hybrid Free Layers With Perpendicular Magnetic Anisotropy. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	6
34	Annealing stability of magnetic tunnel junctions based on dual MgO free layers and [Co/Ni] based thin synthetic antiferromagnet fixed system. Journal of Applied Physics, 2017, 121, .	2.5	12
35	Using rf voltage induced ferromagnetic resonance to study the spin-wave density of states and the Gilbert damping in perpendicularly magnetized disks. Physical Review B, 2017, 96, .	3.2	8
36	Impact of Ta and W-based spacers in double MgO STT-MRAM free layers on perpendicular anisotropy and damping. Applied Physics Letters, 2017, 111, .	3.3	37

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37	Thermal FMR Spectral Characterization of Very Low RA In-Plane MgO Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2017, 53, 1-5.	2.1	1
38	Spin-wave thermal population as temperature probe in magnetic tunnel junctions. Journal of Applied Physics, 2016, 120, .	2.5	5
39	Ferromagnetic resonance of exchange-coupled perpendicularly magnetized bilayers. Journal of Applied Physics, 2016, 119, .	2.5	15
40	Exchange stiffness in ultrathin perpendicularly magnetized CoFeB layers determined using the spectroscopy of electrically excited spin waves. Journal of Applied Physics, 2016, 120, .	2.5	36
41	Evolution of perpendicular magnetized tunnel junctions upon annealing. Applied Physics Letters, 2016, 108, .	3.3	13
42	All electrical propagating spin wave spectroscopy with broadband wavevector capability. Applied Physics Letters, 2016, 109, .	3.3	64
43	Ferromagnetic resonance study of composite Co/Ni - FeCoB free layers with perpendicular anisotropy. Applied Physics Letters, 2016, 109, .	3.3	13
44	Probing the Dzyaloshinskii-Moriya interaction in CoFeB ultrathin films using domain wall creep and Brillouin light spectroscopy. Physical Review B, 2016, 94, .	3.2	84
45	Time-resolved spin-torque switching in MgO-based perpendicularly magnetized tunnel junctions. Physical Review B, 2016, 93, .	3.2	50
46	Direct evidence for minority spin gap in the $C_{\text{MnSi}}O_2$ Heusler compound. Physical Review B, 2016, 93, .	3.2	65
47	Size dependence of nanosecond-scale spin-torque switching in perpendicularly magnetized tunnel junctions. Physical Review B, 2016, 93, .	3.2	40
48	Interfacial Dzyaloshinskii-Moriya interaction in perpendicularly magnetized Pt/Co/AlO_x films measured by Brillouin light spectroscopy. Physical Review B, 2015, 91, .		
49	Increased magnetic damping of a single domain wall and adjacent magnetic domains detected by spin torque diode in a nanostripe. Applied Physics Letters, 2015, 107, .	3.3	6
50	Dynamical influence of vortex-antivortex pairs in magnetic vortex oscillators. Journal of Magnetism and Magnetic Materials, 2015, 394, 292-298.	2.3	6
51	Optimization of top-pinned perpendicular anisotropy tunnel junctions through Ta insertion. Japanese Journal of Applied Physics, 2015, 54, 090302.	1.5	9
52	Joint perpendicular anisotropy and strong interlayer exchange coupling in systems with thin vanadium spacers. Journal of Applied Physics, 2015, 117, 163911.	2.5	5
53	Controlling magnetic domain wall motion in the creep regime in He ⁺ -irradiated CoFeB/MgO films with perpendicular anisotropy. Applied Physics Letters, 2015, 107, .	3.3	41
54	Development of a microwave capacitive method for the spectroscopy of the complex permittivity. Journal of Applied Physics, 2014, 116, 204102.	2.5	2

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55	Measurement of magnetization using domain compressibility in CoFeB films with perpendicular anisotropy. Applied Physics Letters, 2014, 104, .	3.3	22
56	Modulating spin transfer torque switching dynamics with two orthogonal spin-polarizers by varying the cell aspect ratio. Physical Review B, 2014, 90, .	3.2	11
57	Effect of Ta Insertion in Reference Layers of MTJs With Perpendicular Anisotropy. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	9
58	Propagation of magnetic vortices using nanocontacts as tunable attractors. Nature Nanotechnology, 2014, 9, 121-125.	31.5	19
59	Testing epitaxial Co _{1.5} Fe _{1.5} Ge(001) electrodes in MgO-based magnetic tunnel junctions. Applied Physics Letters, 2014, 104, 252412.	3.3	11
60	Electrical Modeling of Stochastic Spin Transfer Torque Writing in Magnetic Tunnel Junctions for Memory and Logic Applications. IEEE Transactions on Magnetics, 2013, 49, 4375-4378.	2.1	74
61	Enhanced stability in spin transfer nanopillars due to a Fe/Cd/Fe trilayer. Applied Physics Letters, 2013, 103, 122404.	3.3	1
62	Perpendicular magnetic anisotropy in piezoelectric- and dielectric-ferromagnetic heterostructures based on Co/Pt multilayers. Thin Solid Films, 2013, 533, 70-74.	1.8	7
63	Strain-controlled magnetic domain wall propagation in hybrid piezoelectric/ferromagnetic structures. Nature Communications, 2013, 4, 1378.	12.8	237
64	Irradiation-induced tailoring of the magnetism of CoFeB/MgO ultrathin films. Journal of Applied Physics, 2013, 113, .	2.5	39
65	Low depinning fields in Ta-CoFeB-MgO ultrathin films with perpendicular magnetic anisotropy. Applied Physics Letters, 2013, 103, 182401.	3.3	90
66	Compositional dependence of the magnetic properties of epitaxial FeV/MgO thin films. Applied Physics Letters, 2013, 103, .	3.3	29
67	Damping of Co _x Fe _{80-x} ultrathin films with perpendicular magnetic anisotropy. Applied Physics Letters, 2013, 102, .	3.3	126
68	Ferromagnetic resonance, transverse bias initial inverse susceptibility and torque studies of magnetic properties of Co ₂ MnSi thin films. EPJ Web of Conferences, 2013, 40, 18001.	0.3	0
69	Performance analysis of MgO-based perpendicularly magnetized tunnel junctions. Applied Physics Letters, 2013, 103, 182402.	3.3	15
70	Voltage control of magnetism in ferromagnetic structures. Proceedings of SPIE, 2012, , .	0.8	0
71	Material parameters and thermal stability of synthetic ferrimagnet free layers in magnetic tunnel junction nanopillars. Journal of Applied Physics, 2012, 112, 053922.	2.5	1
72	Spin torque switching and scaling in synthetic antiferromagnet free layers with in-plane magnetization. Journal of Applied Physics, 2012, 111, .	2.5	19

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73	Magnetic Vortex Core Oscillations in Multi Point Contact Spin Valve Stacks. IEEE Transactions on Magnetics, 2012, 48, 3811-3813.	2.1	5
74	Understanding Nanoscale Temperature Gradients in Magnetic Nanocontacts. Physical Review Letters, 2012, 109, 267205.	7.8	21
75	Sub-Nanosecond Precessional Switching in a MRAM Cell with a Perpendicular Polarizer. , 2012, , .		1
76	Self-Enabled "Error-Free" Switching Circuit for Spin Transfer Torque MRAM and Logic. IEEE Transactions on Magnetics, 2012, 48, 2403-2406.	2.1	71
77	Failure and reliability analysis of STT-MRAM. Microelectronics Reliability, 2012, 52, 1848-1852.	1.7	192
78	Commensurability and chaos in magnetic vortex oscillations. Nature Physics, 2012, 8, 682-687.	16.7	91
79	Vortex Nucleation Phase in Spin Torque Oscillators Based on Nanocontacts. IEEE Transactions on Magnetics, 2011, 47, 1595-1598.	2.1	5
80	Fast magnetization switching in GaMnAs induced by electrical fields. Applied Physics Letters, 2011, 99, .	3.3	6
81	Angular dependence of exchange bias in Mn80Ir20/Co60Fe20B20 bilayers. Journal of Applied Physics, 2011, 109, 07D704.	2.5	3
82	Spin-torque switching window, thermal stability, and material parameters of MgO tunnel junctions. Applied Physics Letters, 2011, 98, 162502.	3.3	18
83	Scalability of Magnetic Random Access Memories Based on an In-Plane Magnetized Free Layer. Applied Physics Express, 2011, 4, 093001.	2.4	15
84	Frequency shift keying in vortex-based spin torque oscillators. Journal of Applied Physics, 2011, 109, 083940.	2.5	36
85	Design considerations and strategies for high-reliable STT-MRAM. Microelectronics Reliability, 2011, 51, 1454-1458.	1.7	99
86	Nanocontact size dependence of the properties of vortex-based spin torque oscillators. Physica Status Solidi (B): Basic Research, 2011, 248, 1615-1618.	1.5	5
87	Configuration and temperature dependence of magnetic damping in spin valves. Journal of Applied Physics, 2011, 110, .	2.5	20
88	Free layer versus synthetic ferrimagnet layer auto-oscillations in nanopillars processed from MgO-based magnetic tunnel junctions. Physical Review B, 2010, 81, .	3.2	17
89	Electric field induced anisotropy modification in (Ga,Mn)As: A strategy for the precessional switching of the magnetization. Applied Physics Letters, 2010, 96, 142504.	3.3	9
90	Direct experimental measurement of phase-amplitude coupling in spin torque oscillators. Applied Physics Letters, 2010, 97, .	3.3	41

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91	Vortex nucleation in spin-torque nanocontact oscillators. Applied Physics Letters, 2010, 97, 072512.	3.3	21
92	Influence of oscillation modes on the line width of rf emissions in MgO based nanopillars. Journal of Applied Physics, 2010, 108, 023917.	2.5	0
93	Stability studies of exchange bias field of Mn ₈₀ Ir ₂₀ /Co ₆₀ Fe ₂₀ B ₂₀ by network analyzer ferromagnetic resonance. Applied Physics Letters, 2010, 97, 132502.	3.3	7
94	Quantized spin-wave modes in magnetic tunnel junction nanopillars. Physical Review B, 2010, 81, .	3.2	63
95	Time-resolved zero field vortex oscillations in point contacts. Applied Physics Letters, 2009, 95, .	3.3	50
96	Auto-oscillation and narrow spectral lines in spin-torque oscillators based on MgO magnetic tunnel junctions. Journal of Applied Physics, 2009, 106, 103921.	2.5	25
97	Direct measurement of current-induced fieldlike torque in magnetic tunnel junctions. Journal of Applied Physics, 2009, 105, .	2.5	11
98	Auto-oscillation threshold and line narrowing in MgO-based spin-torque oscillators. Europhysics Letters, 2009, 87, 57001.	2.0	17
99	Agility of vortex-based nanocontact spin torque oscillators. Applied Physics Letters, 2009, 95, .	3.3	60
100	Dynamics of the exchange field supplied by MnIr layers studied by network analyzer ferromagnetic resonance. Journal of Applied Physics, 2009, 106, 063918.	2.5	13
101	Current-driven vortex oscillations in metallic nanocontacts: zero-field oscillations and training effects. Journal Physics D: Applied Physics, 2009, 42, 245001.	2.8	7
102	Effect of patterning on the saturation magnetization in MgO based nanopillars. Journal of Applied Physics, 2009, 105, .	2.5	14
103	Dynamic compact model of Spin-Transfer Torque based Magnetic Tunnel Junction (MTJ). , 2009, , .		50
104	Experimental study of current-driven vortex oscillations in magnetic nanocontacts. Proceedings of SPIE, 2009, , .	0.8	5
105	MEASUREMENT OF NANOSECOND-SCALE SPIN-TRANSFER TORQUE MAGNETIZATION SWITCHING. , 2009, , .		0
106	Magnetic Properties and Ion Beams: Why&How. Topics in Applied Physics, 2009, , 227-254.	0.8	8
107	Open-Circuit One-Port Network Analyzer Ferromagnetic Resonance. IEEE Transactions on Magnetics, 2008, 44, 3265-3268.	2.1	24
108	Single-Shot Time-Resolved Measurements of Nanosecond-Scale Spin-Transfer Induced Switching: Stochastic Versus Deterministic Aspects. Physical Review Letters, 2008, 100, 057206.	7.8	219

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109	Current-Driven Vortex Oscillations in Metallic Nanocontacts. <i>Physical Review Letters</i> , 2008, 100, 257201.	7.8	209
110	Ferromagnetic resonance linewidth reduction in Fe ³⁺ Au multilayers using ion beams. <i>Journal of Applied Physics</i> , 2008, 103, 07B518.	2.5	8
111	Electrical time-domain observation of magnetization switching induced by spin transfer in magnetic nanostructures (invited). <i>Journal of Applied Physics</i> , 2008, 103, 07A723.	2.5	9
112	Micromagnetic simulation on effect of oersted field and hard axis field in spin transfer torque switching. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 1261-1267.	2.8	20
113	Subnanosecond spin-transfer switching: Comparing the benefits of free-layer or pinned-layer biasing. <i>Physical Review B</i> , 2007, 75, .	3.2	27
114	Spin transfer oscillators emitting microwave in zero applied magnetic field. <i>Journal of Applied Physics</i> , 2007, 101, 063916.	2.5	24
115	Vector network analyzer ferromagnetic resonance of thin films on coplanar waveguides: Comparison of different evaluation methods. <i>Journal of Applied Physics</i> , 2007, 101, 074505.	2.5	112
116	Distribution of the magnetization reversal duration in subnanosecond spin-transfer switching. <i>Physical Review B</i> , 2007, 75, .	3.2	42
117	Integration of Spin-RAM technology in FPGA circuits. , 2006, , .		27
118	Current-driven microwave oscillations in current perpendicular-to-plane spin-valve nanopillars. <i>Applied Physics Letters</i> , 2006, 88, 192507.	3.3	114
119	Study of the dynamic magnetic properties of soft CoFeB films. <i>Journal of Applied Physics</i> , 2006, 100, 053903.	2.5	173
120	Probabilistic behavior in subnanosecond spin transfer torque switching. <i>Journal of Applied Physics</i> , 2006, 99, 08G519.	2.5	14
121	Quasi-static and dynamic switching of exchange biased micron-sized TMR junctions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 126, 202-206.	3.5	0
122	High frequency magnetic eigen excitations in a spin valve submitted to CPP DC current. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 126, 267-270.	3.5	6
123	Experimental analysis of the fast magnetization dynamics in high perpendicular anisotropy Co/Pt nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 307, 325-329.	2.3	9
124	Lateral and Longitudinal Finite Size Effects in NA-FMR Measurements. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 3321-3322.	2.1	14
125	Temperature Dependences of the Resistivity and the Ferromagnetic Resonance Linewidth in Permalloy Thin Films. <i>IEEE Transactions on Magnetics</i> , 2006, 42, 3323-3325.	2.1	30
126	Magnetization switching by spin torque using subnanosecond current pulses assisted by hard axis magnetic fields. <i>Applied Physics Letters</i> , 2006, 88, 152502.	3.3	43

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127	Micromagnetic simulation of spin transfer torque switching combined with precessional motion from a hard axis magnetic field. Applied Physics Letters, 2006, 89, 252509.	3.3	15
128	Analytical solution for precessional magnetization switching in exchange biased high perpendicular anisotropy nanostructures. Journal Physics D: Applied Physics, 2006, 39, 1-5.	2.8	36
129	Ultrahigh Speed Spin-Transfer Magnetization Switching in Magnetic Multilayers. Japanese Journal of Applied Physics, 2006, 45, 3842-3845.	1.5	3
130	Magnetization switching assisted by out-of-plane ultrafast pulsed field in high perpendicular anisotropy nanostructures. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 514-517.	2.3	3
131	Bit selection scheme and dipolar interactions in high density precessional MRAM. IET Science, Measurement and Technology, 2005, 152, 196-200.	0.7	3
132	Precession-dominated reversal of synthetic antiferromagnets and synthetic ferrimagnets. IEEE Transactions on Magnetics, 2005, 41, 2655-2657.	2.1	1
133	Bias field dependence of current-induced precessional magnetization reversal. Journal of Magnetism and Magnetic Materials, 2005, 286, 362-365.	2.3	4
134	Ultra-fast magnetization reversal in magnetic nano-pillars by spin-polarized current. Journal of Magnetism and Magnetic Materials, 2005, 286, 77-82.	2.3	16
135	Characterizations of Co/Al ₂ O ₃ /Co/NiFe multilayers elaborated by ultra-high vacuum ion beam sputtering. Materials Science and Engineering C, 2005, 25, 752-755.	7.3	3
136	Precessional switching on exchange biased patterned magnetic media with perpendicular anisotropy. Journal of Applied Physics, 2005, 97, 083903.	2.5	8
137	Precessional direct-write switching in micrometer-sized magnetic tunnel junctions. Journal of Applied Physics, 2005, 97, 074503.	2.5	7
138	Temperature study of the spin-transfer switching speed from dc to 100ps. Journal of Applied Physics, 2005, 98, 053904.	2.5	34
139	Instability threshold versus switching threshold in spin-transfer-induced magnetization switching. Physical Review B, 2005, 71, .	3.2	34
140	Precharging strategy to accelerate spin-transfer switching below the nanosecond. Applied Physics Letters, 2005, 86, 062505.	3.3	32
141	Precession-dominated reversal of synthetic antiferromagnets and synthetic ferrimagnets. , 2005, , .		0
142	Magnetic anisotropy of epitaxial MgO•Fe•MgO films studied by network analyzer ferromagnetic resonance. Journal of Applied Physics, 2005, 98, 023901.	2.5	17
143	Precession-dominated switching of synthetic antiferromagnets. Applied Physics Letters, 2004, 85, 4094-4096.	3.3	9
144	Spin wave contributions to the high-frequency magnetic response of thin films obtained with inductive methods. Journal of Applied Physics, 2004, 95, 5646-5652.	2.5	156

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145	Subnanosecond magnetization reversal in magnetic nanopillars by spin angular momentum transfer. Applied Physics Letters, 2004, 85, 5358-5360.	3.3	61
146	Cell writing selection when using precessional switching in a magnetic random access memory. Journal of Applied Physics, 2004, 95, 1933-1941.	2.5	19
147	Domain wall displacement induced by subnanosecond pulsed current. Applied Physics Letters, 2004, 84, 2820-2822.	3.3	104
148	A magnetic pendulum. Nature, 2004, 432, 162-162.	27.8	11
149	Electrodeposition of Fe/Au(111) ultrathin layers with perpendicular magnetic anisotropy. Physica B: Condensed Matter, 2004, 354, 282-285.	2.7	16
150	Inductive measurement of the high frequency permeability of a Permalloy thin film. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 290-292.	2.3	20
151	Extraordinary Hall effect: a powerful tool to study the dynamics of high anisotropy nanostructures. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1657-E1658.	2.3	1
152	Magnetic properties of Co/Al ₂ O ₃ /Co junctions deposited by ultra high vacuum ion beam sputtering. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 213-216.	3.5	5
153	Spectral analysis of the precessional switching of the magnetization in an isotropic thin film. Solid State Communications, 2004, 129, 97-101.	1.9	11
154	Precessional switching of thin nanomagnets: analytical study. European Physical Journal B, 2003, 36, 57-64.	1.5	22
155	Morphology and magnetic properties of Pt/Co/Pt sandwiches grown by argon sputter deposition. Journal of Magnetism and Magnetic Materials, 2003, 260, 295-304.	2.3	35
156	Magnetic phase diagrams of He ion-irradiated Pt/Co/Pt ultrathin films. Journal Physics D: Applied Physics, 2003, 36, 3103-3108.	2.8	24
157	Exchange biasing for cost-effective precessional switching of perpendicularly magnetized hard nanomagnets. Journal Physics D: Applied Physics, 2003, 36, 3115-3119.	2.8	5
158	Magnetization dynamics of irradiation-fabricated perpendicularly magnetized dots inside a softer magnetic matrix. Materials Research Society Symposia Proceedings, 2003, 777, 641.	0.1	3
159	Precessional strategies for the ultrafast switching of soft and hard magnetic nanostructures. Materials Research Society Symposia Proceedings, 2002, 746, 841.	0.1	1
160	Modifications of magnetic properties of Pt/Co/Pt thin layers by focused gallium ion beam irradiation. Journal of Applied Physics, 2002, 91, 3103-3110.	2.5	77
161	Weak coercivity dispersion in magnetic nanostructures fabricated by ion irradiation. IEEE Transactions on Magnetics, 2002, 38, 2547-2549.	2.1	3
162	Theoretical study of magnetic pattern replication by He ⁺ ion irradiation through stencil masks. Journal of Magnetism and Magnetic Materials, 2002, 249, 452-457.	2.3	12

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163	X-ray absorption analysis of sputter-grown Co/Pt stackings before and after helium irradiation. European Physical Journal B, 2001, 22, 193-201.	1.5	32
164	Magnetic properties of He ⁺ -irradiated Pt/Co/Pt ultrathin films. Physical Review B, 2001, 64, .	3.2	69
165	Irradiation-induced magnetic patterning in magnetic multilayers. Materials Science and Engineering C, 2001, 15, 53-58.	7.3	7
166	Beam-induced magnetic property modifications: Basics, nanostructure fabrication and potential applications. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 375-381.	1.4	34
167	Magnetic properties of irradiated highly anisotropic materials. IEEE Transactions on Magnetics, 2001, 37, 1643-1645.	2.1	13
168	Enhanced interface perpendicular magnetic anisotropy in electrodeposited Co/Au(111) layers. Physical Review B, 2001, 63, .	3.2	71
169	Anion effect in Co/Au(111) electrodeposition: structure and magnetic behavior. Applied Surface Science, 2000, 164, 22-28.	6.1	56
170	Magnetization reversal in irradiation-fabricated nanostructures. Journal of Applied Physics, 2000, 87, 8671-8681.	2.5	40
171	Light ion irradiation of Co/Pt systems: Structural origin of the decrease in magnetic anisotropy. Physical Review B, 2000, 62, 5794-5802.	3.2	128
172	Patterning of planar magnetic nanostructures by ion irradiation. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 3177.	1.6	28
173	Sub-50 nm planar magnetic nanostructures fabricated by ion irradiation. Applied Physics Letters, 1999, 74, 3383-3385.	3.3	133
174	Ion beam-induced magnetic patterning at the sub-0.1 μm level. Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 915-923.	0.1	2
175	Ion beam induced magnetic nanostructure patterning. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 872-879.	1.4	33
176	Irradiation Effects and Magnetization Reversal in Nanostructures with Perpendicular Anisotropy. Effect of the Dipolar Coupling.. Journal of the Magnetics Society of Japan, 1999, 23, S1_71-76.	0.4	5
177	Planar Patterned Magnetic Media Obtained by Ion Irradiation. Science, 1998, 280, 1919-1922.	12.6	736
178	Ramsey-Type Subrecoil Cooling. Physical Review Letters, 1997, 78, 4023-4026.	7.8	12
179	Precessional Switching of Thin Nanomagnets with Uniaxial Anisotropy. , 0, , 1-55.		4