Giovanni Finocchio

List of Publications by Year in Descending Order

191 papers	4,577 citations	34 h-index	58 g-index
221 ext. papers	5,744 ext. citations	4.1 avg, IF	5.63 L-index

#	Paper	IF	Citations
191	Applications of Magnetic Materials and Spintronics in Smart Systems **2022**, 95-103		1
190	Field-Free Magnetic Tunnel Junction for Logic Operations Based on Voltage-Controlled Magnetic Anisotropy. *IEEE Magnetics Letters*, **2021**, 12, 1-4	1.6	0
189	Perspectives on spintronic diodes. *Applied Physics Letters*, **2021**, 118, 160502	3.4	6
188	Observation of current-induced switching in non-collinear antiferromagnetic IrMn by differential voltage measurements. *Nature Communications*, **2021**, 12, 3828	17.4	6
187	Field-free spin-orbit torque-induced switching of perpendicular magnetization in a ferrimagnetic layer with a vertical composition gradient. *Nature Communications*, **2021**, 12, 4555	17.4	19
186	. *IEEE Transactions on Magnetics*, **2021**, 57, 1-6	2	2
185	The promise of spintronics for unconventional computing. *Journal of Magnetism and Magnetic Materials*, **2021**, 521, 167506	2.8	18
184	Study of the robustness of neural networks based on spintronic neurons. *IEEE Magnetics Letters*, **2021**, 1-1	1.6	3
183	Micromagnetic understanding of switching and self-oscillations in ferrimagnetic materials. *Applied Physics Letters*, **2021**, 118, 052403	3.4	2
182	Role of magnetic skyrmions for the solution of the shortest path problem. *Journal of Magnetism and Magnetic Materials*, **2021**, 532, 167977	2.8	4
181	Imaging the spin chirality of ferrimagnetic Nēl skyrmions stabilized on topological antiferromagnetic Mn3Sn. *Physical Review Materials*, **2021**, 5,	3.2	4
180	Robustness of using degree of match in performing analog multiplication with spin-torque oscillators. *Solid-State Electronics*, **2021**, 183, 108045	1.7	0
179	Automatic Crack Classification by Exploiting Statistical Event Descriptors for Deep Learning. *Applied Sciences (Switzerland)*, **2021**, 11, 12059	2.6	0
178	Pipeline for Advanced Contrast Enhancement (PACE) of Chest X-ray in Evaluating COVID-19 Patients by Combining Bidimensional Empirical Mode Decomposition and Contrast Limited Adaptive Histogram Equalization (CLAHE). *Sustainability*, **2020**, 12, 8573	3.6	4
177	Assessment of STT-MRAMs based on double-barrier MTJs for cache applications by means of a device-to-system level simulation framework. *The Integration VLSI Journal*, **2020**, 71, 56-69	1.4	11
176	Electrical manipulation of the magnetic order in antiferromagnetic PtMn pillars. *Nature Electronics*, **2020**, 3, 92-98	28.4	29
175	Controlling the deformation of antiferromagnetic skyrmions in the high-velocity regime. *Physical Review B*, **2020**, 101,	3.3	20

174	Dynamics of domain-wall motion driven by spin-orbit torque in antiferromagnets. *Physical Review B*, **2020**, 101,	3.3	19
173	Domain periodicity in an easy-plane antiferromagnet with Dzyaloshinskii-Moriya interaction. *Physical Review B*, **2020**, 102,	3.3	3
172	Unified Framework for Micromagnetic Modeling of Ferro-, Ferri-, and Antiferromagnetic Materials at Mesoscopic Scale: Domain Wall Dynamics as a Case Study. *IEEE Magnetics Letters*, **2020**, 11, 1-5	1.6	2
171	Magnetization reversal signatures of hybrid and pure Néel skyrmions in thin film multilayers. *APL Materials*, **2020**, 8, 111112	5.7	2
170	Electrically tunable detector of THz-frequency signals based on an antiferromagnet. *Applied Physics Letters*, **2020**, 117, 222411	3.4	12
169	Impact of Scaling on Physical Unclonable Function Based on Spin–Orbit Torque. *IEEE Magnetics Letters*, **2020**, 11, 1-5	1.6	1
168	Spin hall nano-oscillators based on two-dimensional FeGeTe magnetic materials. *Nanoscale*, **2020**, 12, 22808-22816	7.7	2
167	Spin–orbit torque based physical unclonable function. *Journal of Applied Physics*, **2020**, 128, 033904	2.5	19
166	Thermal generation, manipulation and thermoelectric detection of skyrmions. *Nature Electronics*, **2020**, 3, 672-679	28.4	33
165	Wave amplitude decay driven by anharmonic potential in nonlinear mass-in-mass systems. *Applied Physics Letters*, **2020**, 117, 124101	3.4	4
164	Low-Frequency Nonresonant Rectification in Spin Diodes. *Physical Review Applied*, **2020**, 14,	4.3	3
163	Dual-band microwave detector based on magnetic tunnel junctions. *Applied Physics Letters*, **2020**, 117, 072409	3.4	6
162	Opportunities and challenges for spintronics in the microelectronics industry. *Nature Electronics*, **2020**, 3, 446-459	28.4	160
161	Coexistence of distinct skyrmion phases observed in hybrid ferromagnetic/ferrimagnetic multilayers. *Nature Communications*, **2020**, 11, 6365	17.4	13
160	Experimental Demonstration of Spintronic Broadband Microwave Detectors and Their Capability for Powering Nanodevices. *Physical Review Applied*, **2019**, 11,	4.3	32
159	Compact Modeling of Perpendicular STT-MTJs With Double Reference Layers. *IEEE Nanotechnology Magazine*, **2019**, 18, 1063-1070	2.6	13
158	Configurational entropy of magnetic skyrmions as an ideal gas. *Physical Review B*, **2019**, 99,	3.3	11
157	Correction of Phase Errors in a Spin-Wave Transmission Line by Nonadiabatic Parametric Pumping. *Physical Review Applied*, **2019**, 11,	4.3	2

156	Sparse neuromorphic computing based on spin-torque diodes. *Applied Physics Letters*, **2019**, 114, 192402	3.4	18
155	Voltage-Controlled Spintronic Stochastic Neuron Based on a Magnetic Tunnel Junction. *Physical Review Applied*, **2019**, 11,	4.3	36
154	Stabilizing zero-field skyrmions in Ir/Fe/Co/Pt thin film multilayers by magnetic history control. *Applied Physics Letters*, **2019**, 114, 072401	3.4	26
153	Anatomy of Skyrmionic Textures in Magnetic Multilayers. *Advanced Materials*, **2019**, 31, e1807683	24	41
152	Exploiting Double-Barrier MTJs for Energy-Efficient Nanoscaled STT-MRAMs **2019**,		3
151	Enhanced Broad-band Radio Frequency Detection in Nanoscale Magnetic Tunnel Junction by Interface Engineering. *ACS Applied Materials & Interfaces*, **2019**, 11, 29382-29387	9.5	8
150	Nonlinear dispersion relation in anharmonic periodic mass-spring and mass-in-mass systems. *Journal of Sound and Vibration*, **2019**, 462, 114929	3.9	11
149	Micromagnetic modeling of terahertz oscillations in an antiferromagnetic material driven by the spin Hall effect. *Physical Review B*, **2019**, 99,	3.3	27
148	Three-Dimensional Magnetic Page Memory. *Physical Review Applied*, **2019**, 11,	4.3	2
147	Theory of nonreciprocal spin-wave excitations in spin Hall oscillators with Dzyaloshinskii-Moriya interaction. *Physical Review B*, **2018**, 97,	3.3	4
146	Amplification and stabilization of large-amplitude propagating spin waves by parametric pumping. *Applied Physics Letters*, **2018**, 112, 042402	3.4	10
145	Origin of temperature and field dependence of magnetic skyrmion size in ultrathin nanodots. *Physical Review B*, **2018**, 97,	3.3	53
144	Current-driven domain wall dynamics in ferromagnetic layers synthetically exchange-coupled by a spacer: A micromagnetic study. *Journal of Applied Physics*, **2018**, 123, 013901	2.5	12
143	Seismic isolation of buildings using composite foundations based on metamaterials. *Journal of Applied Physics*, **2018**, 123, 174903	2.5	39
142	Description of Statistical Switching in Perpendicular STT-MRAM Within an Analytical and Numerical Micromagnetic Framework. *IEEE Transactions on Magnetics*, **2018**, 54, 1-10	2	11
141	A Variation-Aware Timing Modeling Approach for Write Operation in Hybrid CMOS/STT-MTJ Circuits. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2018**, 65, 1086-1095	3.9	26
140	Micromagnetic Analysis of Statistical Switching in Perpendicular Magnetic Tunnel Junctions With Double Reference Layers. *IEEE Magnetics Letters*, **2018**, 9, 1-5	1.6	14
139	A data-oriented self-calibration and robust chemical-shift encoding by using clusterization (OSCAR): Theory, optimization and clinical validation in neuromuscular disorders. *Magnetic Resonance Imaging*, **2018**, 45, 84-96	3.3	3

138	Chiral skyrmions in an anisotropy gradient. *Physical Review B*, **2018**, 98,	3.3	23
137	Observation of Magnetic Radial Vortex Nucleation in a Multilayer Stack with Tunable Anisotropy. *Scientific Reports*, **2018**, 8, 7180	4.9	20
136	Micromagnetic understanding of the skyrmion Hall angle current dependence in perpendicularly magnetized ferromagnets. *Physical Review B*, **2018**, 98,	3.3	12
135	Ultrahigh detection sensitivity exceeding 105 V/W in spin-torque diode. *Applied Physics Letters*, **2018**, 113, 102401	3.4	29
134	Influence of the Second-Order Uniaxial Anisotropy on the Dynamical Proprieties of Magnetic Tunnel Junctions. *IEEE Transactions on Magnetics*, **2017**, 53, 1-7	2	3
133	Electrical detection of single magnetic skyrmion at room temperature. *AIP Advances*, **2017**, 7, 056022	1.5	28
132	Micromagnetic Analysis of Statistical Switching in Perpendicular STT-MRAM With Interfacial Dzyaloshinskii–Moriya Interaction. *IEEE Transactions on Magnetics*, **2017**, 53, 1-5	2	4
131	Variability-Aware Analysis of Hybrid MTJ/CMOS Circuits by a Micromagnetic-Based Simulation Framework. *IEEE Nanotechnology Magazine*, **2017**, 16, 160-168	2.6	22
130	Description of statistical switching in perpendicular STT-MRAM within a numerical micromagnetic framework **2017**,		1
129	Rate of entropy model for irreversible processes in living systems. *Scientific Reports*, **2017**, 7, 9134	4.9	18
128	Performance of synthetic antiferromagnetic racetrack memory: domain wall versus skyrmion. *Journal Physics D: Applied Physics*, **2017**, 50, 325302	3	54
127	Excitation of Spin Waves in an In-Plane-Magnetized Ferromagnetic Nanowire Using Voltage-Controlled Magnetic Anisotropy. *Physical Review Applied*, **2017**, 7,	4.3	12
126	On the R relaxometry in complex multi-peak multi-Echo chemical shift-based water-fat quantification: Applications to the neuromuscular diseases. *Magnetic Resonance Imaging*, **2017**, 35, 4-14	3.3	3
125	A Compact Model with Spin-Polarization Asymmetry for Nanoscaled Perpendicular MTJs. *IEEE Transactions on Electron Devices*, **2017**, 64, 4346-4353	2.9	26
124	Magnetic Radial Vortex Stabilization and Efficient Manipulation Driven by the Dzyaloshinskii-Moriya Interaction and Spin-Transfer Torque. *Physical Review Letters*, **2016**, 117, 087204	7.4	53
123	Excitation of propagating spin waves in ferromagnetic nanowires by microwave voltage-controlled magnetic anisotropy. *Scientific Reports*, **2016**, 6, 25018	4.9	34
122	Reproducible formation of single magnetic bubbles in an array of patterned dots. *Journal Physics D: Applied Physics*, **2016**, 49, 245002	3	5
121	Vector hysteresis model to describe micromagnetic structures **2016**,		1

120	A framework for the damage evaluation of acoustic emission signals through Hilbert–Huang transform. *Mechanical Systems and Signal Processing*, **2016**, 75, 109-122	7.8	53
119	Spin-Hall nano-oscillator with oblique magnetization and Dzyaloshinskii-Moriya interaction as generator of skyrmions and nonreciprocal spin-waves. *Scientific Reports*, **2016**, 6, 36020	4.9	25
118	Giant spin-torque diode sensitivity in the absence of bias magnetic field. *Nature Communications*, **2016**, 7, 11259	17.4	89
117	Scalable synchronization of spin-Hall oscillators in out-of-plane field. *Applied Physics Letters*, **2016**, 109, 202402	3.4	16
116	Nanomagnetic logic with non-uniform states of clocking. *Journal Physics D: Applied Physics*, **2016**, 49, 145001	3	9
115	Magnetic skyrmions: from fundamental to applications. *Journal Physics D: Applied Physics*, **2016**, 49, 423001	3	219
114	Micro-focused Brillouin light scattering study of the magnetization dynamics driven by Spin Hall effect in a transversely magnetized NiFe nanowire. *Journal of Applied Physics*, **2015**, 117, 17D504	2.5	6
113	Intrinsic synchronization of an array of spin-torque oscillators driven by the spin-Hall effect. *Journal of Applied Physics*, **2015**, 117, 17E504	2.5	14
112	Cortical and subcortical connections of the human claustrum revealed in vivo by constrained spherical deconvolution tractography. *Cerebral Cortex*, **2015**, 25, 406-14	5.1	67
111	Basal ganglia network by constrained spherical deconvolution: a possible cortico-pallidal pathway?. *Movement Disorders*, **2015**, 30, 342-9	7	59
110	Spintronic Oscillators Based on Spin-Transfer Torque and Spin-Orbit Torque. *Handbook of Surface Science*, **2015**, 5, 297-334		1
109	In-plane rotation of magnetic stripe domains in Fe1−xGax thin films. *Physical Review B*, **2015**, 92,	3.3	42
108	Skyrmion based microwave detectors and harvesting. *Applied Physics Letters*, **2015**, 107, 262401	3.4	64
107	Topological, non-topological and instanton droplets driven by spin-transfer torque in materials with perpendicular magnetic anisotropy and Dzyaloshinskii-Moriya Interaction. *Scientific Reports*, **2015**, 5, 16184	4.9	35
106	A strategy for the design of skyrmion racetrack memories. *Scientific Reports*, **2014**, 4, 6784	4.9	484
105	Micromagnetic analysis of dynamical bubble-like solitons based on the time domain evolution of the topological density. *Journal of Applied Physics*, **2014**, 115, 17D139	2.5	10
104	Seismic metamaterials based on isochronous mechanical oscillators. *Applied Physics Letters*, **2014**, 104, 191903	3.4	63
103	Switching Properties in Magnetic Tunnel Junctions With Interfacial Perpendicular Anisotropy: Micromagnetic Study. *IEEE Transactions on Magnetics*, **2014**, 50, 1-5	2	21

102	Spin-Hall nano-oscillator: A micromagnetic study. *Applied Physics Letters*, **2014**, 105, 042412	3.4	43
101	Hysteretic Synchronization in Spin-Torque Nanocontact Oscillators: A Micromagnetic Study. *IEEE Nanotechnology Magazine*, **2014**, 13, 532-536	2.6	9
100	A generalized tool for accurate time-domain separation of excited modes in spin-torque oscillators. *Journal of Applied Physics*, **2014**, 115, 17D108	2.5	12
99	A Nonlinear and Non-Stationary Signal Analysis for Accurate Power Quality Monitoring in Smart Grids **2014**,		3
98	Self-Modulated Soliton Modes Excited in a Nanocontact Spin-Torque Oscillator. *IEEE Magnetics Letters*, **2014**, 5, 1-4	1.6	20
97	Influence of the Dzyaloshinskii-Moriya interaction on the spin-torque diode effect. *Journal of Applied Physics*, **2014**, 115, 17C730	2.5	17
96	Micromagnetic Study of Electrical-Field-Assisted Magnetization Switching in MTJ Devices. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	8
95	Micromagnetic Study of Spin-Transfer-Driven Vortex Dipole and Vortex Quadrupole Dynamics. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	6
94	Nanowire Spin-Torque Oscillator With Non-Uniform Polarizer: A Micromagnetic Study. *IEEE Transactions on Magnetics*, **2014**, 50, 1-4	2	1
93	Chirp Spectroscopy Applied to the Characterization of Ferromagnetic Resonance in Magnetic Tunnel Junctions. *IEEE Transactions on Magnetics*, **2014**, 50, 1-5	2	
92	Modeling of hysteresis in magnetic multidomains. *Physica B: Condensed Matter*, **2014**, 435, 62-65	2.8	14
91	Domain Wall Dynamics in Asymmetric Stacks: The Roles of Rashba Field and the Spin Hall Effect. *IEEE Transactions on Magnetics*, **2013**, 49, 3105-3108	2	8
90	. *IEEE Transactions on Magnetics*, **2013**, 49, 3203-3206	2	
89	The Role of the Oersted Field on the Current-Driven Domain Wall Dynamics Along Wires With Square Cross Section. *IEEE Transactions on Magnetics*, **2013**, 49, 3211-3214	2	3
88	Nanoscale spintronic oscillators based on the excitation of confined soliton modes. *Journal of Applied Physics*, **2013**, 114, 163908	2.5	14
87	Spin transfer nano-oscillators. *Nanoscale*, **2013**, 5, 2219-31	7.7	119
86	Injection locking at zero field in two free layer spin-valves. *Applied Physics Letters*, **2013**, 102, 102413	3.4	5
85	Ultralow-current-density and bias-field-free spin-transfer nano-oscillator. *Scientific Reports*, **2013**, 3, 1426	4.9	130

84	Switching of a single ferromagnetic layer driven by spin Hall effect. *Applied Physics Letters*, **2013**, 102, 212410	3.4	67
83	Coherent and incoherent spin torque oscillations in a nanopillar magnetic spin-valve. *Applied Physics Letters*, **2013**, 102, 252402	3.4	12
82	Non-stationary excitation of two localized spin-wave modes in a nano-contact spin torque oscillator. *Journal of Applied Physics*, **2013**, 114, 153906	2.5	15
81	Dynamical properties of three terminal magnetic tunnel junctions: Spintronics meets spin-orbitronics. *Applied Physics Letters*, **2013**, 103, 252408	3.4	14
80	The influence of the spin-orbit torques on the current-driven domain wall motion. *AIP Advances*, **2013**, 3, 072109	1.5	11
79	Magnetic switching driven by nanosecond scale heat and magnetic field pulses: An application of macrospin Landau-Lifshitz-Bloch model. *Applied Physics Letters*, **2012**, 101, 252407	3.4	11
78	Noise-Like Sequences to Resonant Excite the Writing of a Universal Memory Based on Spin-Transfer-Torque MRAM. *IEEE Transactions on Magnetics*, **2012**, 48, 2407-2414	2	11
77	Micromagnetic simulations using Graphics Processing Units. *Journal Physics D: Applied Physics*, **2012**, 45, 323001	3	97
76	Mathematical Modelling of Magnetic Hysteresis in Exchange-Bias Spin Valves. *IEEE Transactions on Magnetics*, **2012**, 48, 3367-3370	2	17
75	Semi-implicit integration scheme for Landau□ifshitz□ilbert-Slonczewski equation. *Journal of Applied Physics*, **2012**, 111, 07D112	2.5	46
74	Non-Adlerian phase slip and nonstationary synchronization of spin-torque oscillators to a microwave source. *Physical Review B*, **2012**, 86,	3.3	18
73	Phase locking and frequency doubling in spin-transfer-torque oscillators with two coupled free layers. *Physical Review B*, **2012**, 86,	3.3	32
72	Micromagnetic Study of Synchronization of Nonlinear Spin-Torque Oscillators to Microwave Current and Field. *Advances in Condensed Matter Physics*, **2012**, 2012, 1-5	1	1
71	Wideband microwave signal to trigger fast switching processes in magnetic tunnel junctions. *Journal of Applied Physics*, **2012**, 111, 07C909	2.5	13
70	High-power coherent microwave emission from magnetic tunnel junction nano-oscillators with perpendicular anisotropy. *ACS Nano*, **2012**, 6, 6115-21	16.7	114
69	Hysteretic spin-wave excitation in spin-torque oscillators as a function of the in-plane field angle: A micromagnetic description. *Journal of Applied Physics*, **2011**, 110, 123913	2.5	8
68	Magnonics Crystal Composed by Magnetic Antivortices Confined in Antidots. *IEEE Transactions on Magnetics*, **2011**, 47, 2498-2501	2	4
67	High frequency spin-torque-oscillators with reduced perpendicular torque effect based on asymmetric vortex polarizer. *Journal of Applied Physics*, **2011**, 110, 093911	2.5	27

66	Micromagnetic understanding of stochastic resonance driven by spin-transfer-torque. *Physical Review B*, **2011**, 83,	3.3	35
65	Stochastic resonance of a domain wall in a stripe with two pinning sites. *Applied Physics Letters*, **2011**, 98, 072507	3.4	14
64	Single-shot time-domain studies of spin-torque-driven switching in magnetic tunnel junctions. *Physical Review Letters*, **2010**, 104, 097201	7.4	59
63	Spin-transfer-torque resonant switching and injection locking in the presence of a weak external microwave field for spin valves with perpendicular materials. *Physical Review B*, **2010**, 82,	3.3	33
62	Spin-torque driven magnetic vortex self-oscillations in perpendicular magnetic fields. *Applied Physics Letters*, **2010**, 96, 102508	3.4	27
61	Thermal effects on spin-torque-driven switching in high-tunneling-magnetoresistance magnetic tunnel junctions. *Journal of Applied Physics*, **2010**, 108, 083911	2.5	3
60	Time-domain study of frequency-power correlation in spin-torque oscillators. *Physical Review B*, **2010**, 81,	3.3	21
59	Experimental evidence of self-localized and propagating spin wave modes in obliquely magnetized current-driven nanocontacts. *Physical Review Letters*, **2010**, 105, 217204	7.4	153
58	Domain Wall Dynamics Driven by a Localized Injection of a Spin-Polarized Current. *IEEE Transactions on Magnetics*, **2010**, 46, 1523-1526	2	6
57	Reducing the Non-Linearities of a Spin-Torque Oscillator by Varying the Amplitude of the External Field Applied Along the In-Plane Hard-Axis. *IEEE Transactions on Magnetics*, **2010**, 46, 1519-1522	2	8
56	Combined Frequency-Amplitude Nonlinear Modulation: Theory and Applications. *IEEE Transactions on Magnetics*, **2010**, 46, 3629-3634	2	38
55	Nonstationary magnetization dynamics driven by spin transfer torque. *Physical Review B*, **2009**, 79,	3.3	18
54	Magnetic vortex driven by non-uniform injection of spin-polarized current in nano-scale spin valves. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 602-606	2.8	
53	Magnetization switching driven by spin-transfer-torque in high-TMR magnetic tunnel junctions. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 3913-3920	2.8	17
52	Numerical Analysis of the Nonlinear Excitation of Subcritical Spin-Wave Modes Within a Micromagnetic Framework. *IEEE Transactions on Magnetics*, **2009**, 45, 5220-5223	2	5
51	Micromagnetic simulations of persistent oscillatory modes excited by spin-polarized current in nanoscale exchange-biased spin valves. *Journal of Applied Physics*, **2009**, 105, 07D107	2.5	13
50	Long-timescale fluctuations in zero-field magnetic vortex oscillations driven by dc spin-polarized current. *Physical Review B*, **2009**, 80,	3.3	35
49	Spin-torque-induced rotational dynamics of a magnetic vortex dipole. *Physical Review B*, **2008**, 78,	3.3	34

48	Strong linewidth variation for spin-torque nano-oscillators as a function of in-plane magnetic field angle. *Physical Review B*, **2008**, 78,	3.3	58
47	Micromagnetic Modeling of Nanocontact Spin-Torque Oscillators With Perpendicular Anisotropy at Zero Bias Field. *IEEE Transactions on Magnetics*, **2008**, 44, 2512-2515	2	10
46	Modeling of fast switching processes in nanoscale spin valves. *Journal of Applied Physics*, **2008**, 103, 07B117	2.5	2
45	Micromagnetic study of full widths at half maximum in spin-transfer-driven self-oscillations of individual nanomagnets. *Journal of Applied Physics*, **2008**, 103, 07B107	2.5	4
44	Micromagnetic model of magnetization reversal driven by spin-polarized current in MgO-based magnetic tunnel junctions. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2008**, 5, 2396-2399		1
43	A numerical solution of the magnetization reversal modeling in a permalloy thin film using fifth order Runge–Kutta method with adaptive step size control. *Physica B: Condensed Matter*, **2008**, 403, 464-468	2.8	54
42	Numerical study of the magnetization reversal driven by spin-polarized current in MgO-based magnetic tunnel junctions. *Physica B: Condensed Matter*, **2008**, 403, 364-367	2.8	1
41	Magnetization reversal driven by spin-polarized current in exchange-biased nanoscale spin valves. *Physical Review B*, **2007**, 76,	3.3	35
40	Magnetization dynamics in CoFeB–AlO/Permalloy and CoFeB–MgO/Permalloy magnetic tunnel junctions. *Journal of Applied Physics*, **2007**, 101, 09A508	2.5	4
39	Magnetization dynamics driven by spin-polarized current in nanomagnets. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, 488-491	2.8	20
38	Spin-torque switching in Py/Cu/Py and Py/Cu/CoPt spin-valve nanopillars. *Journal of Magnetism and Magnetic Materials*, **2007**, 316, 492-495	2.8	12
37	Micromagnetic Modeling of Magnetization Reversal in Nano-Scale Point Contact Devices. *IEEE Transactions on Magnetics*, **2007**, 43, 2938-2940	2	11
36	Micromagnetic Investigation of Precession Dynamics in Magnetic Nanopillars. *IEEE Transactions on Magnetics*, **2007**, 43, 2935-2937	2	1
35	Nanocontact spin-transfer oscillators based on perpendicular anisotropy in the free layer. *Applied Physics Letters*, **2007**, 91, 162506	3.4	16
34	Micromagnetic modeling of magnetization switching driven by spin-polarized current in magnetic tunnel junctions. *Journal of Applied Physics*, **2007**, 101, 063914	2.5	34
33	Micromagnetic modal analysis of spin-transfer-driven ferromagnetic resonance of individual nanomagnets. *Journal of Applied Physics*, **2007**, 101, 09A502	2.5	21
32	Coupling of spin-transfer torque to microwave magnetic field: A micromagnetic modal analysis. *Journal of Applied Physics*, **2007**, 101, 053914	2.5	24
31	Influence of the Oersted field in the dynamics of spin-transfer microwave oscillators. *Journal of Applied Physics*, **2007**, 101, 09C108	2.5	15

30	Fast computing vector hysteresis model. *Physica B: Condensed Matter*, **2006**, 372, 128-132	2.8	1
29	Influence of the magnetostatic coupling in magnetization switching driven by spin-polarized current. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 126, 190-193	3.1	8
28	A genetic approach to solve numerical problems in the Preisach model identification. *IEEE Transactions on Magnetics*, **2006**, 42, 1526-1537	2	2
27	About identification of Scalar Preisach functions of soft magnetic materials. *IEEE Transactions on Magnetics*, **2006**, 42, 923-926	2	21
26	A simplified model for vector hysteresis computation. *IEEE Transactions on Magnetics*, **2006**, 42, 955-958	2	7
25	Vector Hysteresis Model at Micromagnetic Scale. *IEEE Transactions on Magnetics*, **2006**, 42, 3138-3140	2	9
24	Analytical solution of Everett integral using Lorentzian Preisach function approximation. *Journal of Magnetism and Magnetic Materials*, **2006**, 300, 451-470	2.8	14
23	Micromagnetic simulations of nanosecond magnetization reversal processes in magnetic nanopillar. *Journal of Applied Physics*, **2006**, 99, 08G522	2.5	31
22	Trends in spin-transfer-driven magnetization dynamics of CoFe/AlO/Py and CoFe/MgO/Py magnetic tunnel junctions. *Applied Physics Letters*, **2006**, 89, 262509	3.4	26
21	Magnetization dynamics driven by the combined action of ac magnetic field and dc spin-polarized current. *Journal of Applied Physics*, **2006**, 99, 08G507	2.5	27
20	Removing numerical instabilities in the Preisach model identification using genetic algorithms. *Physica B: Condensed Matter*, **2006**, 372, 91-96	2.8	4
19	A comparison of spin-polarized current driven magnetization reversal in Co/Cu/Co magnetic multilayers. *Physica B: Condensed Matter*, **2006**, 372, 294-298	2.8	2
18	Micromagnetic computations of spin polarized current-driven magnetization processes. *Journal of Magnetism and Magnetic Materials*, **2005**, 286, 381-385	2.8	48
17	Spin-polarized current-driven switching in permalloy nanostructures. *Journal of Applied Physics*, **2005**, 97, 10E302	2.5	20
16	Effect of the classical ampere field in micromagnetic computations of spin polarized current-driven magnetization processes. *Journal of Applied Physics*, **2005**, 97, 10C713	2.5	36
15	Remarks about a fuzzy approach to model scalar hysteresis. *Journal of Applied Physics*, **2005**, 97, 10E507	2.5	1
14	A comparative study of Preisach scalar hysteresis models. *Physica B: Condensed Matter*, **2004**, 343, 164-170	2.8	16
13	State-independent hypothesis to model the behavior of magnetic materials. *Journal of Magnetism and Magnetic Materials*, **2004**, 280, 158-163	2.8	17

12	Influence of the cut angle and grain size on the behavior of non-oriented magnetic steels. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 3365-3368		
11	Thermal activation in spin-polarized current driven magnetization reversal process. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 3381-3384		
10	A general fuzzy model of the scalar hysteresis. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 3428-3431		
9	An isotropic analytical vector Preisach model based on the Lorentzian function. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2004**, 1, 3740-3743		
8	Super-Lorentzian Preisach function and its applicability to model scalar hysteresis. *Physica B: Condensed Matter*, **2004**, 343, 121-126	2.8	3
7	A fuzzy model of scalar hysteresis on soft magnetic materials. *Physica B: Condensed Matter*, **2004**, 343, 132-136	2.8	8
6	Increasing the accuracy of the numerical identification of the modified scalar Preisach model. *IEEE Transactions on Magnetics*, **2004**, 40, 892-895	2	7
5	Reversible magnetization and Lorentzian function approximation. *Journal of Applied Physics*, **2003**, 93, 6635-6637	2.5	23
4	Remarks about Preisach function approximation using Lorentzian function and its identification for nonoriented steels. *IEEE Transactions on Magnetics*, **2003**, 39, 3028-3030	2	24
3			
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