

Giovanni Finocchio

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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	A strategy for the design of skyrmion racetrack memories. <i>Scientific Reports</i> , 2014 , 4, 6784	4.9	484
190	Magnetic skyrmions: from fundamental to applications. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 423001		219
189	Opportunities and challenges for spintronics in the microelectronics industry. <i>Nature Electronics</i> , 2020 , 3, 446-459	28.4	160
188	Experimental evidence of self-localized and propagating spin wave modes in obliquely magnetized current-driven nanocontacts. <i>Physical Review Letters</i> , 2010 , 105, 217204	7.4	153
187	Ultralow-current-density and bias-field-free spin-transfer nano-oscillator. <i>Scientific Reports</i> , 2013 , 3, 1426	4.9	130
186	Spin transfer nano-oscillators. <i>Nanoscale</i> , 2013 , 5, 2219-31	7.7	119
185	High-power coherent microwave emission from magnetic tunnel junction nano-oscillators with perpendicular anisotropy. <i>ACS Nano</i> , 2012 , 6, 6115-21	16.7	114
184	Micromagnetic simulations using Graphics Processing Units. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 323001	3	97
183	Giant spin-torque diode sensitivity in the absence of bias magnetic field. <i>Nature Communications</i> , 2016 , 7, 11259	17.4	89
182	Cortical and subcortical connections of the human claustrum revealed in vivo by constrained spherical deconvolution tractography. <i>Cerebral Cortex</i> , 2015 , 25, 406-14	5.1	67
181	Switching of a single ferromagnetic layer driven by spin Hall effect. <i>Applied Physics Letters</i> , 2013 , 102, 212410	3.4	67
180	Skyrmion based microwave detectors and harvesting. <i>Applied Physics Letters</i> , 2015 , 107, 262401	3.4	64
179	Seismic metamaterials based on isochronous mechanical oscillators. <i>Applied Physics Letters</i> , 2014 , 104, 191903	3.4	63
178	Basal ganglia network by constrained spherical deconvolution: a possible cortico-pallidal pathway?. <i>Movement Disorders</i> , 2015 , 30, 342-9	7	59
177	Single-shot time-domain studies of spin-torque-driven switching in magnetic tunnel junctions. <i>Physical Review Letters</i> , 2010 , 104, 097201	7.4	59
176	Strong linewidth variation for spin-torque nano-oscillators as a function of in-plane magnetic field angle. <i>Physical Review B</i> , 2008 , 78,	3.3	58
175	Performance of synthetic antiferromagnetic racetrack memory: domain wall versus skyrmion. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 325302	3	54

174	A numerical solution of the magnetization reversal modeling in a permalloy thin film using fifth order Runge-Kutta method with adaptive step size control. <i>Physica B: Condensed Matter</i> , 2008 , 403, 464-468	2.8	54
173	Origin of temperature and field dependence of magnetic skyrmion size in ultrathin nanodots. <i>Physical Review B</i> , 2018 , 97,	3.3	53
172	Magnetic Radial Vortex Stabilization and Efficient Manipulation Driven by the Dzyaloshinskii-Moriya Interaction and Spin-Transfer Torque. <i>Physical Review Letters</i> , 2016 , 117, 087204	7.4	53
171	A framework for the damage evaluation of acoustic emission signals through Hilbert-Huang transform. <i>Mechanical Systems and Signal Processing</i> , 2016 , 75, 109-122	7.8	53
170	Micromagnetic computations of spin polarized current-driven magnetization processes. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 286, 381-385	2.8	48
169	Semi-implicit integration scheme for Landau-Lifshitz-Gilbert-Slonczewski equation. <i>Journal of Applied Physics</i> , 2012 , 111, 07D112	2.5	46
168	Spin-Hall nano-oscillator: A micromagnetic study. <i>Applied Physics Letters</i> , 2014 , 105, 042412	3.4	43
167	In-plane rotation of magnetic stripe domains in Fe _{1-x} Ga _x thin films. <i>Physical Review B</i> , 2015 , 92,	3.3	42
166	Anatomy of Skyrmionic Textures in Magnetic Multilayers. <i>Advanced Materials</i> , 2019 , 31, e1807683	2.4	41
165	Seismic isolation of buildings using composite foundations based on metamaterials. <i>Journal of Applied Physics</i> , 2018 , 123, 174903	2.5	39
164	Combined Frequency-Amplitude Nonlinear Modulation: Theory and Applications. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 3629-3634	2	38
163	Voltage-Controlled Spintronic Stochastic Neuron Based on a Magnetic Tunnel Junction. <i>Physical Review Applied</i> , 2019 , 11,	4.3	36
162	Effect of the classical ampere field in micromagnetic computations of spin polarized current-driven magnetization processes. <i>Journal of Applied Physics</i> , 2005 , 97, 10C713	2.5	36
161	Topological, non-topological and instanton droplets driven by spin-transfer torque in materials with perpendicular magnetic anisotropy and Dzyaloshinskii-Moriya Interaction. <i>Scientific Reports</i> , 2015 , 5, 16184	4.9	35
160	Micromagnetic understanding of stochastic resonance driven by spin-transfer-torque. <i>Physical Review B</i> , 2011 , 83,	3.3	35
159	Long-timescale fluctuations in zero-field magnetic vortex oscillations driven by dc spin-polarized current. <i>Physical Review B</i> , 2009 , 80,	3.3	35
158	Magnetization reversal driven by spin-polarized current in exchange-biased nanoscale spin valves. <i>Physical Review B</i> , 2007 , 76,	3.3	35
157	Excitation of propagating spin waves in ferromagnetic nanowires by microwave voltage-controlled magnetic anisotropy. <i>Scientific Reports</i> , 2016 , 6, 25018	4.9	34

156	Spin-torque-induced rotational dynamics of a magnetic vortex dipole. <i>Physical Review B</i> , 2008 , 78,	3.3	34
155	Micromagnetic modeling of magnetization switching driven by spin-polarized current in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2007 , 101, 063914	2.5	34
154	Spin-transfer-torque resonant switching and injection locking in the presence of a weak external microwave field for spin valves with perpendicular materials. <i>Physical Review B</i> , 2010 , 82,	3.3	33
153	Thermal generation, manipulation and thermoelectric detection of skyrmions. <i>Nature Electronics</i> , 2020 , 3, 672-679	28.4	33
152	Experimental Demonstration of Spintronic Broadband Microwave Detectors and Their Capability for Powering Nanodevices. <i>Physical Review Applied</i> , 2019 , 11,	4.3	32
151	Phase locking and frequency doubling in spin-transfer-torque oscillators with two coupled free layers. <i>Physical Review B</i> , 2012 , 86,	3.3	32
150	Micromagnetic simulations of nanosecond magnetization reversal processes in magnetic nanopillar. <i>Journal of Applied Physics</i> , 2006 , 99, 08G522	2.5	31
149	Electrical manipulation of the magnetic order in antiferromagnetic PtMn pillars. <i>Nature Electronics</i> , 2020 , 3, 92-98	28.4	29
148	Ultrahigh detection sensitivity exceeding 105 V/W in spin-torque diode. <i>Applied Physics Letters</i> , 2018 , 113, 102401	3.4	29
147	Electrical detection of single magnetic skyrmion at room temperature. <i>AIP Advances</i> , 2017 , 7, 056022	1.5	28
146	High frequency spin-torque-oscillators with reduced perpendicular torque effect based on asymmetric vortex polarizer. <i>Journal of Applied Physics</i> , 2011 , 110, 093911	2.5	27
145	Spin-torque driven magnetic vortex self-oscillations in perpendicular magnetic fields. <i>Applied Physics Letters</i> , 2010 , 96, 102508	3.4	27
144	Magnetization dynamics driven by the combined action of ac magnetic field and dc spin-polarized current. <i>Journal of Applied Physics</i> , 2006 , 99, 08G507	2.5	27
143	Micromagnetic modeling of terahertz oscillations in an antiferromagnetic material driven by the spin Hall effect. <i>Physical Review B</i> , 2019 , 99,	3.3	27
142	Stabilizing zero-field skyrmions in Ir/Fe/Co/Pt thin film multilayers by magnetic history control. <i>Applied Physics Letters</i> , 2019 , 114, 072401	3.4	26
141	A Variation-Aware Timing Modeling Approach for Write Operation in Hybrid CMOS/STT-MTJ Circuits. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2018 , 65, 1086-1095	3.9	26
140	A Compact Model with Spin-Polarization Asymmetry for Nanoscaled Perpendicular MTJs. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 4346-4353	2.9	26
139	Trends in spin-transfer-driven magnetization dynamics of CoFeAlOBy and CoFeMgOBy magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2006 , 89, 262509	3.4	26

138	Spin-Hall nano-oscillator with oblique magnetization and Dzyaloshinskii-Moriya interaction as generator of skyrmions and nonreciprocal spin-waves. <i>Scientific Reports</i> , 2016 , 6, 36020	4.9	25
137	Coupling of spin-transfer torque to microwave magnetic field: A micromagnetic modal analysis. <i>Journal of Applied Physics</i> , 2007 , 101, 053914	2.5	24
136	Remarks about Preisach function approximation using Lorentzian function and its identification for nonoriented steels. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 3028-3030	2	24
135	Chiral skyrmions in an anisotropy gradient. <i>Physical Review B</i> , 2018 , 98,	3.3	23
134	Reversible magnetization and Lorentzian function approximation. <i>Journal of Applied Physics</i> , 2003 , 93, 6635-6637	2.5	23
133	Variability-Aware Analysis of Hybrid MTJ/CMOS Circuits by a Micromagnetic-Based Simulation Framework. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 160-168	2.6	22
132	Switching Properties in Magnetic Tunnel Junctions With Interfacial Perpendicular Anisotropy: Micromagnetic Study. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-5	2	21
131	Time-domain study of frequency-power correlation in spin-torque oscillators. <i>Physical Review B</i> , 2010 , 81,	3.3	21
130	About identification of Scalar Preisach functions of soft magnetic materials. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 923-926	2	21
129	Micromagnetic modal analysis of spin-transfer-driven ferromagnetic resonance of individual nanomagnets. <i>Journal of Applied Physics</i> , 2007 , 101, 09A502	2.5	21
128	Controlling the deformation of antiferromagnetic skyrmions in the high-velocity regime. <i>Physical Review B</i> , 2020 , 101,	3.3	20
127	Observation of Magnetic Radial Vortex Nucleation in a Multilayer Stack with Tunable Anisotropy. <i>Scientific Reports</i> , 2018 , 8, 7180	4.9	20
126	Self-Modulated Soliton Modes Excited in a Nanocontact Spin-Torque Oscillator. <i>IEEE Magnetics Letters</i> , 2014 , 5, 1-4	1.6	20
125	Magnetization dynamics driven by spin-polarized current in nanomagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 488-491	2.8	20
124	Spin-polarized current-driven switching in permalloy nanostructures. <i>Journal of Applied Physics</i> , 2005 , 97, 10E302	2.5	20
123	Dynamics of domain-wall motion driven by spin-orbit torque in antiferromagnets. <i>Physical Review B</i> , 2020 , 101,	3.3	19
122	Spin-orbit torque based physical unclonable function. <i>Journal of Applied Physics</i> , 2020 , 128, 033904	2.5	19
121	Field-free spin-orbit torque-induced switching of perpendicular magnetization in a ferrimagnetic layer with a vertical composition gradient. <i>Nature Communications</i> , 2021 , 12, 4555	17.4	19

120	Sparse neuromorphic computing based on spin-torque diodes. <i>Applied Physics Letters</i> , 2019 , 114, 192402-4	3.4	18
119	Rate of entropy model for irreversible processes in living systems. <i>Scientific Reports</i> , 2017 , 7, 9134	4.9	18
118	Non-Adlerian phase slip and nonstationary synchronization of spin-torque oscillators to a microwave source. <i>Physical Review B</i> , 2012 , 86,	3.3	18
117	Nonstationary magnetization dynamics driven by spin transfer torque. <i>Physical Review B</i> , 2009 , 79,	3.3	18
116	The promise of spintronics for unconventional computing. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 521, 167506	2.8	18
115	Influence of the Dzyaloshinskii-Moriya interaction on the spin-torque diode effect. <i>Journal of Applied Physics</i> , 2014 , 115, 17C730	2.5	17
114	Mathematical Modelling of Magnetic Hysteresis in Exchange-Bias Spin Valves. <i>IEEE Transactions on Magnetism</i> , 2012 , 48, 3367-3370	2	17
113	Magnetization switching driven by spin-transfer-torque in high-TMR magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 3913-3920	2.8	17
112	State-independent hypothesis to model the behavior of magnetic materials. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 280, 158-163	2.8	17
111	Nanocontact spin-transfer oscillators based on perpendicular anisotropy in the free layer. <i>Applied Physics Letters</i> , 2007 , 91, 162506	3.4	16
110	A comparative study of Preisach scalar hysteresis models. <i>Physica B: Condensed Matter</i> , 2004 , 343, 164-170	2.8	16
109	Scalable synchronization of spin-Hall oscillators in out-of-plane field. <i>Applied Physics Letters</i> , 2016 , 109, 202402	3.4	16
108	Non-stationary excitation of two localized spin-wave modes in a nano-contact spin torque oscillator. <i>Journal of Applied Physics</i> , 2013 , 114, 153906	2.5	15
107	Influence of the Oersted field in the dynamics of spin-transfer microwave oscillators. <i>Journal of Applied Physics</i> , 2007 , 101, 09C108	2.5	15
106	Intrinsic synchronization of an array of spin-torque oscillators driven by the spin-Hall effect. <i>Journal of Applied Physics</i> , 2015 , 117, 17E504	2.5	14
105	Micromagnetic Analysis of Statistical Switching in Perpendicular Magnetic Tunnel Junctions With Double Reference Layers. <i>IEEE Magnetism Letters</i> , 2018 , 9, 1-5	1.6	14
104	Nanoscale spintronic oscillators based on the excitation of confined soliton modes. <i>Journal of Applied Physics</i> , 2013 , 114, 163908	2.5	14
103	Modeling of hysteresis in magnetic multidomains. <i>Physica B: Condensed Matter</i> , 2014 , 435, 62-65	2.8	14

102	Dynamical properties of three terminal magnetic tunnel junctions: Spintronics meets spin-orbitronics. <i>Applied Physics Letters</i> , 2013 , 103, 252408	3.4	14
101	Stochastic resonance of a domain wall in a stripe with two pinning sites. <i>Applied Physics Letters</i> , 2011 , 98, 072507	3.4	14
100	Analytical solution of Everett integral using Lorentzian Preisach function approximation. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 451-470	2.8	14
99	Compact Modeling of Perpendicular STT-MTJs With Double Reference Layers. <i>IEEE Nanotechnology Magazine</i> , 2019 , 18, 1063-1070	2.6	13
98	Wideband microwave signal to trigger fast switching processes in magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2012 , 111, 07C909	2.5	13
97	Micromagnetic simulations of persistent oscillatory modes excited by spin-polarized current in nanoscale exchange-biased spin valves. <i>Journal of Applied Physics</i> , 2009 , 105, 07D107	2.5	13
96	Coexistence of distinct skyrmion phases observed in hybrid ferromagnetic/ferrimagnetic multilayers. <i>Nature Communications</i> , 2020 , 11, 6365	17.4	13
95	Current-driven domain wall dynamics in ferromagnetic layers synthetically exchange-coupled by a spacer: A micromagnetic study. <i>Journal of Applied Physics</i> , 2018 , 123, 013901	2.5	12
94	A generalized tool for accurate time-domain separation of excited modes in spin-torque oscillators. <i>Journal of Applied Physics</i> , 2014 , 115, 17D108	2.5	12
93	Excitation of Spin Waves in an In-Plane-Magnetized Ferromagnetic Nanowire Using Voltage-Controlled Magnetic Anisotropy. <i>Physical Review Applied</i> , 2017 , 7,	4.3	12
92	Coherent and incoherent spin torque oscillations in a nanopillar magnetic spin-valve. <i>Applied Physics Letters</i> , 2013 , 102, 252402	3.4	12
91	Spin-torque switching in Py/Cu/Py and Py/Cu/CoPt spin-valve nanopillars. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 492-495	2.8	12
90	Electrically tunable detector of THz-frequency signals based on an antiferromagnet. <i>Applied Physics Letters</i> , 2020 , 117, 222411	3.4	12
89	Micromagnetic understanding of the skyrmion Hall angle current dependence in perpendicularly magnetized ferromagnets. <i>Physical Review B</i> , 2018 , 98,	3.3	12
88	Configurational entropy of magnetic skyrmions as an ideal gas. <i>Physical Review B</i> , 2019 , 99,	3.3	11
87	Assessment of STT-MRAMs based on double-barrier MTJs for cache applications by means of a device-to-system level simulation framework. <i>The Integration VLSI Journal</i> , 2020 , 71, 56-69	1.4	11
86	Description of Statistical Switching in Perpendicular STT-MRAM Within an Analytical and Numerical Micromagnetic Framework. <i>IEEE Transactions on Magnetics</i> , 2018 , 54, 1-10	2	11
85	Nonlinear dispersion relation in anharmonic periodic mass-spring and mass-in-mass systems. <i>Journal of Sound and Vibration</i> , 2019 , 462, 114929	3.9	11

84	Magnetic switching driven by nanosecond scale heat and magnetic field pulses: An application of macrospin Landau-Lifshitz-Bloch model. <i>Applied Physics Letters</i> , 2012 , 101, 252407	3.4	11
83	Noise-Like Sequences to Resonant Excite the Writing of a Universal Memory Based on Spin-Transfer-Torque MRAM. <i>IEEE Transactions on Magnetics</i> , 2012 , 48, 2407-2414	2	11
82	The influence of the spin-orbit torques on the current-driven domain wall motion. <i>AIP Advances</i> , 2013 , 3, 072109	1.5	11
81	Micromagnetic Modeling of Magnetization Reversal in Nano-Scale Point Contact Devices. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 2938-2940	2	11
80	Amplification and stabilization of large-amplitude propagating spin waves by parametric pumping. <i>Applied Physics Letters</i> , 2018 , 112, 042402	3.4	10
79	Micromagnetic analysis of dynamical bubble-like solitons based on the time domain evolution of the topological density. <i>Journal of Applied Physics</i> , 2014 , 115, 17D139	2.5	10
78	Micromagnetic Modeling of Nanocontact Spin-Torque Oscillators With Perpendicular Anisotropy at Zero Bias Field. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2512-2515	2	10
77	Hysteretic Synchronization in Spin-Torque Nanocontact Oscillators: A Micromagnetic Study. <i>IEEE Nanotechnology Magazine</i> , 2014 , 13, 532-536	2.6	9
76	Vector Hysteresis Model at Micromagnetic Scale. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3138-3140	2	9
75	Nanomagnetic logic with non-uniform states of clocking. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 145001	3	9
74	Enhanced Broad-band Radio Frequency Detection in Nanoscale Magnetic Tunnel Junction by Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29382-29387	9.5	8
73	Domain Wall Dynamics in Asymmetric Stacks: The Roles of Rashba Field and the Spin Hall Effect. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3105-3108	2	8
72	Micromagnetic Study of Electrical-Field-Assisted Magnetization Switching in MTJ Devices. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	8
71	Hysteretic spin-wave excitation in spin-torque oscillators as a function of the in-plane field angle: A micromagnetic description. <i>Journal of Applied Physics</i> , 2011 , 110, 123913	2.5	8
70	Reducing the Non-Linearities of a Spin-Torque Oscillator by Varying the Amplitude of the External Field Applied Along the In-Plane Hard-Axis. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1519-1522	2	8
69	Influence of the magnetostatic coupling in magnetization switching driven by spin-polarized current. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 126, 190-193	3.1	8
68	A fuzzy model of scalar hysteresis on soft magnetic materials. <i>Physica B: Condensed Matter</i> , 2004 , 343, 132-136	2.8	8
67	Massively parallel probabilistic computing with sparse Ising machines. <i>Nature Electronics</i> ,	28.4	8

66	A simplified model for vector hysteresis computation. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 955-958	2	7
65	Increasing the accuracy of the numerical identification of the modified scalar Preisach model. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 892-895	2	7
64	Micro-focused Brillouin light scattering study of the magnetization dynamics driven by Spin Hall effect in a transversely magnetized NiFe nanowire. <i>Journal of Applied Physics</i> , 2015 , 117, 17D504	2.5	6
63	Micromagnetic Study of Spin-Transfer-Driven Vortex Dipole and Vortex Quadrupole Dynamics. <i>IEEE Transactions on Magnetics</i> , 2014 , 50, 1-4	2	6
62	Domain Wall Dynamics Driven by a Localized Injection of a Spin-Polarized Current. <i>IEEE Transactions on Magnetics</i> , 2010 , 46, 1523-1526	2	6
61	Dual-band microwave detector based on magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2020 , 117, 072409	3.4	6
60	Perspectives on spintronic diodes. <i>Applied Physics Letters</i> , 2021 , 118, 160502	3.4	6
59	Observation of current-induced switching in non-collinear antiferromagnetic IrMn by differential voltage measurements. <i>Nature Communications</i> , 2021 , 12, 3828	17.4	6
58	Reproducible formation of single magnetic bubbles in an array of patterned dots. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 245002	3	5
57	Injection locking at zero field in two free layer spin-valves. <i>Applied Physics Letters</i> , 2013 , 102, 102413	3.4	5
56	Numerical Analysis of the Nonlinear Excitation of Subcritical Spin-Wave Modes Within a Micromagnetic Framework. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 5220-5223	2	5
55	Micromagnetic Analysis of Statistical Switching in Perpendicular STT-MRAM With Interfacial Dzyaloshinskii-Moriya Interaction. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-5	2	4
54	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). <i>Sustainability</i> , 2020 , 12, 8573	3.6	4
53	Theory of nonreciprocal spin-wave excitations in spin Hall oscillators with Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2018 , 97,	3.3	4
52	Magnonics Crystal Composed by Magnetic Antivortices Confined in Antidots. <i>IEEE Transactions on Magnetics</i> , 2011 , 47, 2498-2501	2	4
51	Micromagnetic study of full widths at half maximum in spin-transfer-driven self-oscillations of individual nanomagnets. <i>Journal of Applied Physics</i> , 2008 , 103, 07B107	2.5	4
50	Magnetization dynamics in CoFe ₂ O ₃ /Permalloy and CoFeMgO/Permalloy magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2007 , 101, 09A508	2.5	4
49	Removing numerical instabilities in the Preisach model identification using genetic algorithms. <i>Physica B: Condensed Matter</i> , 2006 , 372, 91-96	2.8	4

48	Wave amplitude decay driven by anharmonic potential in nonlinear mass-in-mass systems. <i>Applied Physics Letters</i> , 2020 , 117, 124101	3.4	4
47	Role of magnetic skyrmions for the solution of the shortest path problem. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 532, 167977	2.8	4
46	Imaging the spin chirality of ferrimagnetic Néel skyrmions stabilized on topological antiferromagnetic Mn ₃ Sn. <i>Physical Review Materials</i> , 2021 , 5,	3.2	4
45	Influence of the Second-Order Uniaxial Anisotropy on the Dynamical Properties of Magnetic Tunnel Junctions. <i>IEEE Transactions on Magnetics</i> , 2017 , 53, 1-7	2	3
44	A data-oriented self-calibration and robust chemical-shift encoding by using clusterization (OSCAR): Theory, optimization and clinical validation in neuromuscular disorders. <i>Magnetic Resonance Imaging</i> , 2018 , 45, 84-96	3.3	3
43	Exploiting Double-Barrier MTJs for Energy-Efficient Nanoscaled STT-MRAMs 2019 ,		3
42	The Role of the Oersted Field on the Current-Driven Domain Wall Dynamics Along Wires With Square Cross Section. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3211-3214	2	3
41	On the R relaxometry in complex multi-peak multi-Echo chemical shift-based water-fat quantification: Applications to the neuromuscular diseases. <i>Magnetic Resonance Imaging</i> , 2017 , 35, 4-14	3.3	3
40	A Nonlinear and Non-Stationary Signal Analysis for Accurate Power Quality Monitoring in Smart Grids 2014 ,		3
39	Thermal effects on spin-torque-driven switching in high-tunneling-magnetoresistance magnetic tunnel junctions. <i>Journal of Applied Physics</i> , 2010 , 108, 083911	2.5	3
38	Super-Lorentzian Preisach function and its applicability to model scalar hysteresis. <i>Physica B: Condensed Matter</i> , 2004 , 343, 121-126	2.8	3
37	Domain periodicity in an easy-plane antiferromagnet with Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2020 , 102,	3.3	3
36	Low-Frequency Nonresonant Rectification in Spin Diodes. <i>Physical Review Applied</i> , 2020 , 14,	4.3	3
35	Study of the robustness of neural networks based on spintronic neurons. <i>IEEE Magnetics Letters</i> , 2021 , 1-1	1.6	3
34	Correction of Phase Errors in a Spin-Wave Transmission Line by Nonadiabatic Parametric Pumping. <i>Physical Review Applied</i> , 2019 , 11,	4.3	2
33	Modeling of fast switching processes in nanoscale spin valves. <i>Journal of Applied Physics</i> , 2008 , 103, 07B117	1.7	2
32	A genetic approach to solve numerical problems in the Preisach model identification. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 1526-1537	2	2
31	A comparison of spin-polarized current driven magnetization reversal in Co/Cu/Co magnetic multilayers. <i>Physica B: Condensed Matter</i> , 2006 , 372, 294-298	2.8	2

30	Unified Framework for Micromagnetic Modeling of Ferro-, Ferri-, and Antiferromagnetic Materials at Mesoscopic Scale: Domain Wall Dynamics as a Case Study. <i>IEEE Magnetism Letters</i> , 2020 , 11, 1-5	1.6	2
29	Magnetization reversal signatures of hybrid and pure Néel skyrmions in thin film multilayers. <i>APL Materials</i> , 2020 , 8, 111112	5.7	2
28	Spin hall nano-oscillators based on two-dimensional FeGeTe magnetic materials. <i>Nanoscale</i> , 2020 , 12, 22808-22816	7.7	2
27	Three-Dimensional Magnetic Page Memory. <i>Physical Review Applied</i> , 2019 , 11,	4.3	2
26	. <i>IEEE Transactions on Magnetism</i> , 2021 , 57, 1-6	2	2
25	Micromagnetic understanding of switching and self-oscillations in ferrimagnetic materials. <i>Applied Physics Letters</i> , 2021 , 118, 052403	3.4	2
24	Description of statistical switching in perpendicular STT-MRAM within a numerical micromagnetic framework 2017 ,		1
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