

Marlio Jc Bonfim

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44
papers

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h-index

40
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54
ext. papers

1,831
ext. citations

3.5
avg, IF

3.65
L-index

#	Paper	IF	Citations
44	Fast current-induced domain-wall motion controlled by the Rashba effect. <i>Nature Materials</i> , 2011 , 10, 419-23	27	633
43	High domain wall velocities induced by current in ultrathin Pt/Co/AlOx wires with perpendicular magnetic anisotropy. <i>Applied Physics Letters</i> , 2008 , 93, 262504	3.4	188
42	Time-resolved magnetic domain imaging by x-ray photoemission electron microscopy. <i>Applied Physics Letters</i> , 2003 , 82, 2299-2301	3.4	91
41	Element-selective nanosecond magnetization dynamics in magnetic heterostructures. <i>Physical Review Letters</i> , 2001 , 86, 3646-9	7.4	72
40	Perpendicular interlayer coupling in Ni80Fe20/NiO/Co trilayers. <i>Physical Review Letters</i> , 2003 , 91, 027201	7.4	62
39	Very large domain wall velocities in Pt/Co/GdOx and Pt/Co/Gd trilayers with Dzyaloshinskii-Moriya interaction. <i>Europhysics Letters</i> , 2016 , 113, 67001	1.6	51
38	Direct observation of massless domain wall dynamics in nanostripes with perpendicular magnetic anisotropy. <i>Physical Review Letters</i> , 2012 , 108, 247202	7.4	48
37	Velocity asymmetry of Dzyaloshinskii domain walls in the creep and flow regimes. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 326002	1.8	37
36	50 T pulsed magnetic fields in microcoils. <i>Journal of Applied Physics</i> , 2000 , 87, 1996-2002	2.5	36
35	Domain wall dynamics in ultrathin Pt/Co/AlOx microstrips under large combined magnetic fields. <i>Physical Review B</i> , 2016 , 93,	3.3	34
34	Magnetic relaxation of exchange biased Pt/Co multilayers studied by time-resolved Kerr microscopy. <i>Physical Review B</i> , 2005 , 72,	3.3	30
33	High Domain Wall Velocity at Zero Magnetic Field Induced by Low Current Densities in Spin Valve Nanostripes. <i>Applied Physics Express</i> , 2009 , 2, 023003	2.4	29
32	Dynamics of magnetic domain wall motion after nucleation: dependence on the wall energy. <i>Physical Review Letters</i> , 2006 , 96, 097204	7.4	26
31	Switching-mode-dependent magnetic interlayer coupling strength in spin valves and magnetic tunnel junctions. <i>Physical Review B</i> , 2004 , 69,	3.3	26
30	Influence of domain wall interactions on nanosecond switching in magnetic tunnel junctions. <i>Physical Review B</i> , 2005 , 72,	3.3	22
29	Dynamical properties of magnetization reversal in exchange-coupled NiO/Co bilayers. <i>Physical Review B</i> , 2001 , 64,	3.3	20
28	Remote Actuation of Apoptosis in Liver Cancer Cells via Magneto-Mechanical Modulation of Iron Oxide Nanoparticles. <i>Cancers</i> , 2019 , 11,	6.6	20

27	Exploring spin valve magnetization reversal dynamics with temporal, spatial and layer resolution: Influence of domain-wall energy. <i>Applied Physics Letters</i> , 2004 , 85, 440-442	3.4	19
26	Dispersive XAS at third-generation sources: strengths and limitations. <i>Journal of Synchrotron Radiation</i> , 1999 , 6, 146-8	2.4	19
25	Using injection molding and reversible bonding for easy fabrication of magnetic cell trapping and sorting devices. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 427, 306-313	2.8	17
24	Quarter-wave plates and X-ray magnetic circular dichroism on ID24 at the ESRF. <i>Journal of Synchrotron Radiation</i> , 1998 , 5, 1298-303	2.4	17
23	Time and layer resolved magnetic domain imaging of FeNi/Cu/Co trilayers using x-ray photoelectron emission microscopy (invited). <i>Journal of Applied Physics</i> , 2004 , 95, 6533-6536	2.5	16
22	Mobility of domain wall motion in the permalloy layer of a spin-valve-like Fe ₂₀ Ni ₈₀ /Cu/Co trilayer. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 293, 863-871	2.8	14
21	Magnetization Reversal of Highly Coercive FePt Examined With Pulsed Microcoils. <i>IEEE Transactions on Magnetics</i> , 2006 , 42, 3072-3074	2	13
20	Nanosecond-resolved XMCD on ID24 at the ESRF to investigate the element-selective dynamics of magnetization switching of Gd-Co amorphous thin film. <i>Journal of Synchrotron Radiation</i> , 1998 , 5, 750-2	2.4	12
19	The use of pulsed magnetic fields to increase the uptake of iron oxide nanoparticles by living cells. <i>Applied Physics Letters</i> , 2017 , 111, 243703	3.4	11
18	Nanosecond resolved techniques for dynamical magnetization reversal measurements. <i>Journal of Applied Physics</i> , 2000 , 87, 5974-5976	2.5	11
17	Influence of topography and Co domain walls on the magnetization reversal of the FeNi layer in FeNi/Al ₂ O ₃ /Co magnetic tunnel junctions. <i>Physical Review B</i> , 2006 , 74,	3.3	8
16	Interplay between magnetic anisotropy and interlayer coupling in nanosecond magnetization reversal of spin-valve trilayers. <i>Physical Review B</i> , 2005 , 71,	3.3	8
15	Magnetization reversal dynamics in exchange-coupled NiO/Co bilayers. <i>Journal of Applied Physics</i> , 2001 , 89, 6585-6587	2.5	8
14	Distributed temperature sensing in OPGW with multiple optical fibres. <i>IET Science, Measurement and Technology</i> , 2019 , 13, 1219-1223	1.5	5
13	Finite-Element Time-Domain Simulation of Electric Discharges. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 1435-1439	4.1	5
12	A Spiking Neural Network implemented with Single-Electron Transistors and NoCs. <i>Nano Communication Networks</i> , 2018 , 17, 21-29	2.9	3
11	Magnetic properties of patterned arrays of exchange-biased IrMn/Co square dots. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 345308	3	3
10	Analysis of Magnetization Processes in Nanocomposite Hard Magnetic Materials from Macroscopic Magnetic Measurements and X-RAY Magnetic Circular Dichroism. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 577, 175		3

- 9 A modified nanoelectronic spiking neuron model. *Journal of Computational Electronics*, **2017**, 16, 98-105 1.8 2
- 8 A Hammerstein-Wiener Model for Single-Electron Transistors. *IEEE Transactions on Electron Devices*, **2019**, 66, 1092-1099 2.9 2
- 7 Preparation and characterisation of compositionally graded SmCo films. *AIP Advances*, **2017**, 7, 056227 1.5 1
- 6 20 T portable bipolar magnetic pulser. *Review of Scientific Instruments*, **2010**, 81, 064705 1.7 1
- 5 Electromagnetic Launching System as an Alternative to Non-Destructive Sonic Wave Generation for Steel Bar Length Determination. *IEEE Latin America Transactions*, **2021**, 19, 306-313 0.7 0
- 4 Magnetization reversal of nanostructured tunnel junctions from prepatterned substrates. *Journal of Applied Physics*, **2008**, 103, 07C108 2.5
- 3 Análise do caminho de retorno de uma corrente elétrica em um plano terra. *Revista Brasileira De Ensino De Física*, **2015**, 37, 4308-1-4308-11 0.4
- 2 Geometry optimization for application of radio frequency signals on diamond samples. *Journal of Microwaves, Optoelectronics and Electromagnetic Applications*, **2013**, 12, 666-677 0.7
- 1 A high throughput study of both compositionally graded and homogeneous FePt thin films. *Journal of Materials Research and Technology*, **2022**, 18, 1245-1255 5.5