

Joao Sampaio

List of Publications by Year in descending order

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4573
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative analysis of spin wave dynamics in ferrimagnets across compensation points. Physical Review B, 2022, 105, .	1.1	3
2	Domain wall dynamics in antiferromagnetically coupled double-lattice systems. Physical Review B, 2021, 103, .	1.1	24
3	Spin-Orbit Coupling in Single-Layer Ferrimagnets: Direct Observation of Spin-Orbit Torques and Chiral Spin Textures. Physical Review Applied, 2021, 16, .	1.5	23
4	Domain wall propagation by spin-orbit torques in in-plane magnetized systems. Physical Review B, 2020, 102, .	1.1	3
5	Measurement of the tilt of a moving domain wall shows precession-free dynamics in compensated ferrimagnets. Scientific Reports, 2020, 10, 16292.	1.6	16
6	Strong current actions on ferrimagnetic domain walls in the creep regime. Physical Review B, 2019, 99, .	1.1	6
7	Optical Magnetometry of Single Biocompatible Micromagnets for Quantitative Magnetogenetic and Magnetomechanical Assays. Nano Letters, 2018, 18, 7635-7641.	4.5	17
8	Velocity Enhancement by Synchronization of Magnetic Domain Walls. Physical Review Letters, 2018, 120, 227204.	2.9	35
9	Skyrmion morphology in ultrathin magnetic films. Physical Review Materials, 2018, 2, .	0.9	52
10	Deviations from bulk behavior in TbFe(Co) thin films: Interfaces contribution in the biased composition. Physical Review Materials, 2018, 2, .	0.9	19
11	Current-induced skyrmion generation and dynamics in symmetric bilayers. Nature Communications, 2017, 8, 15765.	5.8	248
12	Effect of spin transfer torque on domain wall motion regimes in [Co/Ni] superlattice wires. Physical Review B, 2017, 95, .	1.1	6
13	Disruptive effect of Dzyaloshinskii-Moriya interaction on the magnetic memory cell performance. Applied Physics Letters, 2016, 108, .	1.5	38
14	Perpendicular magnetization reversal in Pt/[Co/Ni] ₃ /Al multilayers <i>via</i> the spin Hall effect of Pt. Applied Physics Letters, 2016, 108, .	1.5	56
15	A magnetic synapse: multilevel spin-torque memristor with perpendicular anisotropy. Scientific Reports, 2016, 6, 31510.	1.6	186
16	Very large domain wall velocities in Pt/Co/GdOx and Pt/Co/Gd trilayers with Dzyaloshinskii-Moriya interaction. Europhysics Letters, 2016, 113, 67001.	0.7	75
17	Domain wall dynamics in ultrathin Pt/Co/AlOx microstrips under large combined magnetic fields. Physical Review B, 2016, 93, .	1.1	44
18	Dzyaloshinskii-Moriya anisotropy in nanomagnets with in-plane magnetization. Physical Review B, 2016, 93, .	1.1	34

#	ARTICLE	IF	CITATIONS
19	Twist in the bias dependence of spin torques in magnetic tunnel junctions. <i>Physical Review B</i> , 2016, 93, .	1.1	5
20	A skyrmion-based spin-torque nano-oscillator. <i>New Journal of Physics</i> , 2016, 18, 075011.	1.2	170
21	Additive interfacial chiral interaction in multilayers for stabilization of small individual skyrmions at room temperature. <i>Nature Nanotechnology</i> , 2016, 11, 444-448.	15.6	919
22	Domain Wall Motion in Nanostructures. <i>Handbook of Surface Science</i> , 2015, 5, 335-370.	0.3	6
23	Increased magnetic damping of a single domain wall and adjacent magnetic domains detected by spin torque diode in a nanostripe. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	6
24	Effects of Dzyaloshinskii-Moriya interaction on the spin transfer magnetization switching in magnetic tunnel junctions. , 2015, , .		0
25	Skyrmions at room temperature in magnetic multilayers. , 2015, , .		4
26	Breathing modes of confined skyrmions in ultrathin magnetic dots. <i>Physical Review B</i> , 2014, 90, .	1.1	140
27	Nucleation, stability and current-induced motion of isolated magnetic skyrmions in nanostructures. <i>Nature Nanotechnology</i> , 2013, 8, 839-844.	15.6	1,387
28	Skyrmions on the track. <i>Nature Nanotechnology</i> , 2013, 8, 152-156.	15.6	2,422
29	Coupling and induced depinning of magnetic domain walls in adjacent spin valve nanotracks. <i>Journal of Applied Physics</i> , 2013, 113, 133901.	1.1	7
30	High domain wall velocities via spin transfer torque using vertical current injection. <i>Scientific Reports</i> , 2013, 3, 1829.	1.6	39
31	Time-resolved observation of fast domain-walls driven by vertical spin currents in short tracks. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	14
32	Dynamic Oscillations of Coupled Domain Walls. <i>Physical Review Letters</i> , 2012, 108, 187202.	2.9	29
33	Tunable Remote Pinning of Domain Walls in Magnetic Nanowires. <i>Physical Review Letters</i> , 2011, 106, 087204.	2.9	61
34	Fast domain wall motion in magnetic comb-structures. <i>Nature Materials</i> , 2010, 9, 980-983.	13.3	105
35	Magnetic imaging of the pinning mechanism of asymmetric transverse domain walls in ferromagnetic nanowires. <i>Applied Physics Letters</i> , 2010, 97, 233102.	1.5	23
36	Asymmetric magnetic NOT gate and shift registers for high density data storage. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	22

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37	Near-Field Interaction between Domain Walls in Adjacent Permalloy Nanowires. Physical Review Letters, 2009, 103, 077206.	2.9	73
38	Plasma Channels for Electron Accelerators Using Discharges in Structured Gas Cells. IEEE Transactions on Plasma Science, 2008, 36, 1728-1733.	0.6	10