

Mauricio Manfrini

List of Publications by Year in descending order

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567281

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docs citations

33
times ranked

858
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin-Hall-assisted magnetic random access memory. Applied Physics Letters, 2014, 104, .	3.3	96
2	All electrical propagating spin wave spectroscopy with broadband wavevector capability. Applied Physics Letters, 2016, 109, .	3.3	64
3	Agility of vortex-based nanocontact spin torque oscillators. Applied Physics Letters, 2009, 95, .	3.3	60
4	Time-resolved zero field vortex oscillations in point contacts. Applied Physics Letters, 2009, 95, .	3.3	50
5	Frequency shift keying in vortex-based spin torque oscillators. Journal of Applied Physics, 2011, 109, 083940.	2.5	36
6	Non-volatile spin wave majority gate at the nanoscale. AIP Advances, 2017, 7, .	1.3	31
7	Band-edge polarized optical absorption in europium chalcogenides. Physical Review B, 2005, 72, .	3.2	27
8	Modeling the dichroic absorption band edge and light-induced magnetism in EuTe. Physical Review B, 2008, 77, .	3.2	21
9	Vortex nucleation in spin-torque nanocontact oscillators. Applied Physics Letters, 2010, 97, 072512.	3.3	21
10	Understanding Nanoscale Temperature Gradients in Magnetic Nanocontacts. Physical Review Letters, 2012, 109, 267205.	7.8	21
11	Electrical properties of magnetic nanocontact devices computed using finite-element simulations. Applied Physics Letters, 2012, 100, .	3.3	19
12	Propagation of magnetic vortices using nanocontacts as tunable attractors. Nature Nanotechnology, 2014, 9, 121-125.	31.5	19
13	Spintronic majority gates. , 2015, , .		19
14	Exchange-driven Magnetic Logic. Scientific Reports, 2017, 7, 12154.	3.3	17
15	STT MRAM patterning challenges. Proceedings of SPIE, 2013, , .	0.8	16
16	Performance analysis of MgO-based perpendicularly magnetized tunnel junctions. Applied Physics Letters, 2013, 103, 182402.	3.3	15
17	Toward error-free scaled spin torque majority gates. AIP Advances, 2016, 6, .	1.3	15
18	Instant-On Spin Torque in Noncollinear Magnetic Tunnel Junctions. Physical Review Applied, 2018, 10, .	3.8	14

#	ARTICLE	IF	CITATIONS
19	Transport properties of chemically synthesized MoS ₂ – Dielectric effects and defects scattering. Applied Physics Letters, 2016, 109, 233102.	3.3	12
20	Inverter Propagation and Fan-Out Constraints for Beyond-CMOS Majority-Based Technologies. , 2017, , .		12
21	Fabrication of magnetic tunnel junctions connected through a continuous free layer to enable spin logic devices. Japanese Journal of Applied Physics, 2018, 57, 04FN01.	1.5	12
22	Interconnected magnetic tunnel junctions for spin-logic applications. AIP Advances, 2018, 8, .	1.3	10
23	Operating conditions and stability of spin torque majority gates: Analytical understanding and numerical evidence. Journal of Applied Physics, 2017, 121, .	2.5	8
24	Wide operating window spin-torque majority gate towards large-scale integration of logic circuits. AIP Advances, 2018, 8, 055920.	1.3	7
25	Dynamical influence of vortex–antivortex pairs in magnetic vortex oscillators. Journal of Magnetism and Magnetic Materials, 2015, 394, 292-298.	2.3	6
26	Experimental study of current-driven vortex oscillations in magnetic nanocontacts. Proceedings of SPIE, 2009, , .	0.8	5
27	Vortex Nucleation Phase in Spin Torque Oscillators Based on Nanocontacts. IEEE Transactions on Magnetics, 2011, 47, 1595-1598.	2.1	5
28	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
29	Nanocontact based spin torque oscillators with two free layers. Journal Physics D: Applied Physics, 2017, 50, 085002.	2.8	5
30	Spin-torque-driven MTJs with extended free layer for logic applications. Journal Physics D: Applied Physics, 2018, 51, 275002.	2.8	5
31	MAGNETIC CIRCULAR DICHROISM IN ELITE IN THE FERROMAGNETIC ORDER. International Journal of Modern Physics B, 2007, 21, 1247-1253.	2.0	4
32	Overview of spin-based majority gates and interconnect implications. , 2016, , .		1