Daniel Bedau

List of Publications by Year
in descending order

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43	1,398	471509	361022
papers	citations	17	35
		h-index	g-index

43	43	43	1614
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bit-Patterned Magnetic Recording: Theory, Media Fabrication, and Recording Performance. IEEE Transactions on Magnetics, 2015, 51, 1-42.	2.1	179
2	Ultrafast switching in magnetic tunnel junction based orthogonal spin transfer devices. Applied Physics Letters, 2010, 97, .	3.3	145
3	Spin-transfer pulse switching: From the dynamic to the thermally activated regime. Applied Physics Letters, 2010, 97, .	3.3	128
4	Observation of thermally activated domain wall transformations. Applied Physics Letters, 2006, 88, 052507.	3.3	96
5	Detection of Current-Induced Resonance of Geometrically Confined Domain Walls. Physical Review Letters, 2007, 99, 146601.	7.8	93
6	Temperature Dependence of the Spin Torque Effect in Current-Induced Domain Wall Motion. Physical Review Letters, 2006, 97, 046602.	7.8	92
7	Ultrafast spin-transfer switching in spin valve nanopillars with perpendicular anisotropy. Applied Physics Letters, 2010, 96, .	3.3	89
8	Dynamics of spin torque switching in all-perpendicular spin valve nanopillars. Journal of Magnetism and Magnetic Materials, 2014, 358-359, 233-258.	2.3	84
9	Bit Patterned Media at 1 Tdot/in² and Beyond. IEEE Transactions on Magnetics, 2013, 49, 773-778.	2.1	75
10	Quantitative Determination of the Nonlinear Pinning Potential for a Magnetic Domain Wall. Physical Review Letters, 2008, 101, 256602.	7.8	49
11	Quantitative determination of domain wall coupling energetics. Applied Physics Letters, 2006, 88, 212510.	3.3	39
12	Perpendicular magnetic anisotropy in ultrathin <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0003.gif" overflow="scroll"><mml:mi>Co</mml:mi><mml:mo>|</mml:mo><mml:mi>Ni</mml:mi></mml:math> multilayer films studied with ferromagnetic resonance and magnetic x-ray microspectroscopy. Journal of Magnetism and Magnetic Materials, 2012, 324, 3629-3632.	2.3	36
13	Precessional reversal in orthogonal spin transfer magnetic random access memory devices. Applied Physics Letters, 2012, 101, .	3.3	30
14	Stimulated Brillouin scattering in multimode fibers for optical phase conjugation. Optics Communications, 2002, 208, 427-431.	2.1	27
15	State diagram of nanopillar spin valves with perpendicular magnetic anisotropy. Physical Review B, 2012, 86, .	3.2	25
16	Asymmetric switching behavior in perpendicularly magnetized spin-valve nanopillars due to the polarizer dipole field. Applied Physics Letters, 2012, 100, 062404.	3.3	25
17	Time-resolved magnetic relaxation of a nanomagnet on subnanosecond time scales. Physical Review B, 2012, 85, .	3.2	19
18	Stability of $2pi$ Domain Walls in Ferromagnetic Nanorings. IEEE Transactions on Magnetics, 2010, 46, 2272-2274.	2.1	17

#	Article	IF	Citations
19	Angular dependence of the depinning field for head-to-head domain walls at constrictions. Journal of Applied Physics, 2007, 101, 09F509.	2.5	13
20	The influence of thermal activation and the intrinsic temperature dependence of the spin torque effect in current-induced domain wall motion. Journal Physics D: Applied Physics, 2007, 40, 1247-1252.	2.8	12
21	Switching field distributions with spin transfer torques in perpendicularly magnetized spin-valve nanopillars. Physical Review B, 2014, 89, .	3.2	12
22	Current-limiting amplifier for high speed measurement of resistive switching data. Review of Scientific Instruments, 2021, 92, 054701.	1.3	12
23	Temperature dependence of the switching field in all-perpendicular spin-valve nanopillars. Physical Review B, 2013, 88, .	3.2	11
24	Current-induced domain wall motion in Ni80Fe20nanowires with low depinning fields. Journal Physics D: Applied Physics, 2010, 43, 045003.	2.8	9
25	Domain wall motion in nanopillar spin-valves with perpendicular anisotropy driven by spin-transfer torques. Physical Review B, 2012, 86, .	3.2	9
26	Forming-free Mott-oxide threshold selector nanodevice showing s-type NDR with high endurance (> 10¹² cycles), excellent V<inf>th</inf> stability (5%), fast (< 10 ns) switching, and promising scaling properties. , 2018, , .		9
27	Geometry-dependent scaling of critical current densities for current-induced domain wall motion and transformations. Physical Review B, 2009, 80, .	3.2	8
28	Template-Assisted Direct Growth of 1 Td/in² Bit Patterned Media. Nano Letters, 2016, 16, 4726-4730.	9.1	7
29	Characterization of interlayer interactions in magnetic random access memory layer stacks using ferromagnetic resonance. Journal of Applied Physics, 2012, 111, 07C721.	2.5	6
30	Temperature dependent nucleation, propagation, and annihilation of domain walls in all-perpendicular spin-valve nanopillars. Journal of Applied Physics, 2014, 115, 113910.	2.5	6
31	Bimodal switching field distributions in all-perpendicular spin-valve nanopillars. Journal of Applied Physics, 2014, 115, 17C707.	2.5	6
32	Switching Speed Analysis and Controlled Oscillatory Behavior of a Cr-Doped V₂O₃ Threshold Switching Device for Memory Selector and Neuromorphic Computing Application. , 2019, , .		5
33	Current-induced magnetization reversal in SrRuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 86, .	3.2	4
34	A Mott Insulator-Based Oscillator Circuit for Reservoir Computing. , 2020, , .		4
35	A digitally configurable measurement platform using audio cards for high-resolution electronic transport studies. Review of Scientific Instruments, 2012, 83, 054701.	1.3	3
36	Thermally assisted current-induced magnetization reversal in SrRuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	3

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37	2-D Decoding Algorithms and Recording Techniques for Bit Patterned Media Feasibility Demonstrations. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	3
38	Domain Wall Spin Structures in 3d Metal Ferromagnetic Nanostructures. , 2008, , 281-293.		3
39	Stabilizing amplifier with a programmable load line for characterization of nanodevices with negative differential resistance. Review of Scientific Instruments, 2022, 93, 024705.	1.3	3
40	Non-Volatile Memory Array Based Quantization- and Noise-Resilient LSTM Neural Networks. , 2019, , .		2
41	Switching probability in all-perpendicular spin valves. , 2010, , .		0
42	Orthogonal spin transfer MRAM. , 2011, , .		0
43	Direct growth of Bit Patterned Media â€" The template effect. , 2015, , .		0