

Daniel Bedau

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3420862/publications.pdf>

Version: 2024-02-01

43
papers

1,398
citations

471509

17
h-index

361022

35
g-index

43
all docs

43
docs citations

43
times ranked

1614
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Current-limiting amplifier for high speed measurement of resistive switching data. Review of Scientific Instruments, 2021, 92, 054701.	1.3	12
3	A Mott Insulator-Based Oscillator Circuit for Reservoir Computing. , 2020, , .		4
4	Switching Speed Analysis and Controlled Oscillatory Behavior of a Cr-Doped V_2O_3 Threshold Switching Device for Memory Selector and Neuromorphic Computing Application. , 2019, , .		5
5	Non-Volatile Memory Array Based Quantization- and Noise-Resilient LSTM Neural Networks. , 2019, , .		2
6	Forming-free Mott-oxide threshold selector nanodevice showing s-type NDR with high endurance ($> 10^{12}$ cycles), excellent V_{th} stability (5%), fast (< 10 ns) switching, and promising scaling properties. , 2018, , .		9
7	Template-Assisted Direct Growth of 1 Td^2 Bit Patterned Media. Nano Letters, 2016, 16, 4726-4730.	9.1	7
8	2-D Decoding Algorithms and Recording Techniques for Bit Patterned Media Feasibility Demonstrations. IEEE Transactions on Magnetics, 2016, 52, 1-9.	2.1	3
9	Direct growth of Bit Patterned Media " The template effect. , 2015, , .		0
10	Bit-Patterned Magnetic Recording: Theory, Media Fabrication, and Recording Performance. IEEE Transactions on Magnetics, 2015, 51, 1-42.	2.1	179
11	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
12	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
13	Switching field distributions with spin transfer torques in perpendicularly magnetized spin-valve nanopillars. Physical Review B, 2014, 89, .	3.2	12
14	Bimodal switching field distributions in all-perpendicular spin-valve nanopillars. Journal of Applied Physics, 2014, 115, 17C707.	2.5	6
15	Temperature dependence of the switching field in all-perpendicular spin-valve nanopillars. Physical Review B, 2013, 88, .	3.2	11
16	Bit Patterned Media at 1 Td^2 and Beyond. IEEE Transactions on Magnetics, 2013, 49, 773-778.	2.1	75
17	Thermally assisted current-induced magnetization reversal in SrRuO_3 . Physical Review B, 2013, 87, .	3.2	3
18	Characterization of interlayer interactions in magnetic random access memory layer stacks using ferromagnetic resonance. Journal of Applied Physics, 2012, 111, 07C721.	2.5	6

#	ARTICLE	IF	CITATIONS
19	Precessional reversal in orthogonal spin transfer magnetic random access memory devices. Applied Physics Letters, 2012, 101, .	3.3	30
20	Domain wall motion in nanopillar spin-valves with perpendicular anisotropy driven by spin-transfer torques. Physical Review B, 2012, 86, .	3.2	9
21	Current-induced magnetization reversal in SrRuO ₃ . Physical Review B, 2012, 86, .	3.2	4
22	State diagram of nanopillar spin valves with perpendicular magnetic anisotropy. Physical Review B, 2012, 86, .	3.2	25
23	Asymmetric switching behavior in perpendicularly magnetized spin-valve nanopillars due to the polarizer dipole field. Applied Physics Letters, 2012, 100, 062404.	3.3	25
24	Perpendicular magnetic anisotropy in ultrathin Co/Ni multilayer films studied with ferromagnetic resonance and magnetic x-ray microspectroscopy. Journal of Magnetism and Magnetic Materials, 2012, 324, 3629-3632.	2.3	36
25	A digitally configurable measurement platform using audio cards for high-resolution electronic transport studies. Review of Scientific Instruments, 2012, 83, 054701.	1.3	3
26	Time-resolved magnetic relaxation of a nanomagnet on subnanosecond time scales. Physical Review B, 2012, 85, .	3.2	19
27	Orthogonal spin transfer MRAM. , 2011, , .		0
28	Ultrafast spin-transfer switching in spin valve nanopillars with perpendicular anisotropy. Applied Physics Letters, 2010, 96, .	3.3	89
29	Ultrafast switching in magnetic tunnel junction based orthogonal spin transfer devices. Applied Physics Letters, 2010, 97, .	3.3	145
30	Stability of 2π Domain Walls in Ferromagnetic Nanorings. IEEE Transactions on Magnetics, 2010, 46, 2272-2274.	2.1	17
31	Current-induced domain wall motion in Ni ₈₀ Fe ₂₀ nanowires with low depinning fields. Journal Physics D: Applied Physics, 2010, 43, 045003.	2.8	9
32	Spin-transfer pulse switching: From the dynamic to the thermally activated regime. Applied Physics Letters, 2010, 97, .	3.3	128
33	Switching probability in all-perpendicular spin valves. , 2010, , .		0
34	Geometry-dependent scaling of critical current densities for current-induced domain wall motion and transformations. Physical Review B, 2009, 80, .	3.2	8
35	Quantitative Determination of the Nonlinear Pinning Potential for a Magnetic Domain Wall. Physical Review Letters, 2008, 101, 256602.	7.8	49
36	Domain Wall Spin Structures in 3d Metal Ferromagnetic Nanostructures. , 2008, , 281-293.		3

#	ARTICLE	IF	CITATIONS
37	Angular dependence of the depinning field for head-to-head domain walls at constrictions. Journal of Applied Physics, 2007, 101, 09F509.	2.5	13
38	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
39	Detection of Current-Induced Resonance of Geometrically Confined Domain Walls. Physical Review Letters, 2007, 99, 146601.	7.8	93
40	Temperature Dependence of the Spin Torque Effect in Current-Induced Domain Wall Motion. Physical Review Letters, 2006, 97, 046602.	7.8	92
41	Observation of thermally activated domain wall transformations. Applied Physics Letters, 2006, 88, 052507.	3.3	96
42	Quantitative determination of domain wall coupling energetics. Applied Physics Letters, 2006, 88, 212510.	3.3	39
43	Stimulated Brillouin scattering in multimode fibers for optical phase conjugation. Optics Communications, 2002, 208, 427-431.	2.1	27