

HÃ©lÃ¨ne BÃ©a

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Interfacial Dzyaloshinskiiâ€Moriya Interaction, Perpendicular Magnetic Anisotropy, and Damping in CoFeB-/Oxide-Based Systems. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	0
2	Electric field control of interfacial Dzyaloshinskii-Moriya interaction in Pt/Co/AlOx thin films. Journal of Magnetism and Magnetic Materials, 2021, 520, 167122.	1.0	16
3	Kinetics of Ion Migration in the Electric Fieldâ€Driven Manipulation of Magnetic Anisotropy of Pt/Co/Oxide Multilayers. Small, 2021, 17, e2102427.	5.2	7
4	Static and dynamic properties of 1-kink skyrmion in Pt/Co/MgO trilayer. Physical Review B, 2021, 104, .	1.1	2
5	Skyrmion Brownian circuit implemented in continuous ferromagnetic thin film. Applied Physics Letters, 2020, 117, .	1.5	43
6	Reversible and Irreversible Voltage Manipulation of Interfacial Magnetic Anisotropy in $\text{Pt}/\text{Co}/\text{Oxide}$ Multilayers. Physical Review Applied, 2020, 14, .	1.5	14
7	Interface phenomena in ferromagnetic $\text{Ta}/\text{FeCoB}/\text{TaOx}$ -based systems: Damping, perpendicular magnetic anisotropy, and Dzyaloshinskii-Moriya interaction. Physical Review Materials, 2020, 4, .	0.9	5
8	Mapping different skyrmion phases in double wedges of Ta/FeCoB/TaOx trilayers. Physical Review B, 2019, 100, .	1.1	14
9	Creation of Magnetic Skyrmion Bubble Lattices by Ultrafast Laser in Ultrathin Films. Nano Letters, 2018, 18, 7362-7371.	4.5	103
10	Large-Voltage Tuning of Dzyaloshinskiiâ€Moriya Interactions: A Route toward Dynamic Control of Skyrmion Chirality. Nano Letters, 2018, 18, 4871-4877.	4.5	173
11	Large voltage tuning of Dzyaloshinskii-Moriya interaction: towards a chirality switch?. , 2018, , .		2
12	The Skyrmion Switch: Turning Magnetic Skyrmion Bubbles on and off with an Electric Field. Nano Letters, 2017, 17, 3006-3012.	4.5	181
13	Spin-modulated torque waves in ferrimagnetic tunnel junctions. Physical Review B, 2014, 90, .	1.1	5
14	Penetration depth and absorption mechanisms of spin currents in $\text{Ir}_{20}\text{Mn}_{80}$ and $\text{Fe}_{50}\text{Mn}_{50}$ polycrystalline films by ferromagnetic resonance and spin pumping. Applied Physics Letters, 2014, 104, 032406.	1.5	61
15	Breakdown mechanisms in MgO based magnetic tunnel junctions and correlation with low frequency noise. , 2014, , .		0
16	Spin-dependent transport in antiferromagnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	1.5	22
17	Breakdown mechanisms in MgO based magnetic tunnel junctions and correlation with low frequency noise. Microelectronics Reliability, 2013, 53, 1239-1242.	0.9	2
18	Correlation between write endurance and electrical low frequency noise in MgO based magnetic tunnel junctions. Applied Physics Letters, 2013, 102, 052404.	1.5	8

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19	Modelling of time-dependent dielectric barrier breakdown mechanisms in MgO-based magnetic tunnel junctions. Journal Physics D: Applied Physics, 2012, 45, 295002.	1.3	18
20	Barrier breakdown mechanisms in MgO-based magnetic tunnel junctions under pulsed conditions and correlation with low-frequency noise. Proceedings of SPIE, 2012, , .	0.8	0
21	Barrier Breakdown Mechanisms in MgO-Based Magnetic Tunnel Junctions under Pulsed Conditions. , 2012, , .		3
22	Anisotropic bimodal distribution of blocking temperature with multiferroic BiFeO ₃ epitaxial thin films. Applied Physics Letters, 2012, 100, .	1.5	20
23	Barrier Breakdown Mechanisms in MgO-Based Magnetic Tunnel Junctions and Correlation With Low-Frequency Noise. IEEE Transactions on Magnetics, 2012, 48, 4340-4343.	1.2	5
24	Charge trapping-detrapping mechanism of barrier breakdown in MgO magnetic tunnel junctions. Applied Physics Letters, 2011, 99, .	1.5	33
25	Nanoscale polarization switching mechanisms in multiferroic BiFeO ₃ thin films. Journal of Physics Condensed Matter, 2011, 23, 142201.	0.7	26
26	Imaging ferroelectric domains in multiferroics using a low-energy electron microscope in the mirror operation mode. Physica Status Solidi - Rapid Research Letters, 2010, 4, 22-24.	1.2	31
27	Exchange coupling with the multiferroic compound BiFeO_3 in antiferromagnetic multidomain films and single-domain crystals. Physical Review B. 2010, 81, .	1.1	47
28	Lateral piezoelectric response across ferroelectric domain walls in thin films. Journal of Applied Physics, 2010, 108, .	1.1	20
29	A way forward along domain walls. Nature Materials, 2009, 8, 168-169.	13.3	66
30	Shear effects in lateral piezoresponse force microscopy at 180° ferroelectric domain walls. Applied Physics Letters, 2009, 95, 132902.	1.5	32
31	Evidence for Room-Temperature Multiferroicity in a Compound with a Giant Axial Ratio. Physical Review Letters, 2009, 102, 217603.	2.9	331
32	Mechanisms of Exchange Bias with Multiferroic BiFeO_3 Epitaxial Thin Films. Physical Review Letters, 2008, 100, 017204.	2.9	250
33	Spintronics with multiferroics. Journal of Physics Condensed Matter, 2008, 20, 434221.	0.7	306
34	Thickness-dependent structural and electrical properties of multiferroic Mn-doped BiFeO ₃ thin films grown epitaxially by pulsed laser deposition. Applied Physics Letters, 2008, 93, 082902.	1.5	60
35	Integration of Multiferroic BiFeO ₃ Thin Films into Heterostructures for Spintronics. IEEE Transactions on Magnetics, 2008, 44, 1941-1945.	1.2	15
36	Crystallographic, magnetic, and ferroelectric structures of bulklike BiFeO ₃ thin films. Applied Physics Letters, 2008, 93, 072901.	1.5	55

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37	Fractal Dimension and Size Scaling of Domains in Thin Films of Multiferroic BiFeO_3 . Physical Review Letters, 2008, 100, 027602.	2.9	270
38	Irradiation-induced Ag nanocluster nucleation in silicate glasses: Analogy with photography. Physical Review B, 2007, 76, .	1.1	79
39	Structural distortion and magnetism of BiFeO_3 epitaxial thin films: A Raman spectroscopy and neutron diffraction study. Philosophical Magazine Letters, 2007, 87, 165-174.	0.5	207
40	Investigation on the origin of the magnetic moment of BiFeO_3 thin films by advanced x-ray characterizations. Physical Review B, 2006, 74, .	1.1	197
41	Tunnel magnetoresistance and robust room temperature exchange bias with multiferroic BiFeO_3 epitaxial thin films. Applied Physics Letters, 2006, 89, 242114.	1.5	149
42	Ferroelectricity Down to at Least 2 nm in Multiferroic BiFeO_3 Epitaxial Thin Films. Japanese Journal of Applied Physics, 2006, 45, L187-L189.	0.8	53
43	Combining half-metals and multiferroics into epitaxial heterostructures for spintronics. Applied Physics Letters, 2006, 88, 062502.	1.5	100
44	Influence of parasitic phases on the properties of BiFeO_3 epitaxial thin films. Applied Physics Letters, 2005, 87, 072508.	1.5	369