Baomin Wang

List of Publications by Year
in descending order

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63 papers	1,426 citations	361413 20 h-index	345221 36 g-index
64 all docs	64 docs citations	64 times ranked	1977 citing authors

#	Article	IF	Citations
1	Current-induced NÃ©el order switching facilitated by magnetic phase transition. Nature Communications, 2022, 13, 1629.	12.8	13
2	Origin of magnetic field-induced magnetic anisotropy in amorphous CoFeB thin films. AIP Advances, 2022, 12, .	1.3	2
3	Electric Field Control of Magnetic Properties by Means of Li+ Migration in FeRh Thin Film. Magnetochemistry, 2021, 7, 45.	2.4	1
4	Mechanical Analysis and Experimental Studies of the Transverse Strain in Wrinkled Metallic Thin Films. Metals, 2021, 11, 427.	2.3	1
5	Effect of isothermal crystallization in antiferromagnetic IrMn on the formation of spontaneous exchange bias. Applied Physics Letters, 2021, 118, .	3.3	7
6	Crystal Orientations Dependent Polarization Reversal in Ferroelectric PbZr 0.2 Ti 0.8 O 3 Thin Films for Multilevel Data Storage Applications. Advanced Materials Interfaces, 2021, 8, 2100871.	3.7	3
7	Manipulation of Exchange Bias Effect via All-Solid-State <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Li</mml:mi></mml:math> -Ion Redox Capacitor with Antiferromagnetic Electrode. Physical Review Applied, 2020, 14, .	3.8	16
8	Inferring the magnetic anisotropy of a nanosample through dynamic cantilever magnetometry measurements. Applied Physics Letters, 2020, 116, 193102.	3.3	4
9	Preparation and magnetic properties of wrinkled FeRh flexible films. AIP Advances, 2020, 10, 025327.	1.3	3
10	Stress-coefficient of magnetoelastic anisotropy in flexible Fe, Co and Ni thin films. Journal of Magnetism and Magnetic Materials, 2020, 505, 166750.	2.3	8
11	Reversibly controlled magnetic domains of Co film via electric field driven oxygen migration at nanoscale. Applied Physics Letters, 2019, 114, .	3.3	11
12	Method for Assembling Nanosamples and a Cantilever for Dynamic Cantilever Magnetometry. Physical Review Applied, 2019, 11, .	3.8	9
13	Reversible Control of Magnetic Anisotropy and Magnetization in Amorphous <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msub><mml:mi>Co</mml:mi><mml:mn>40</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mi mathvariant="normal">B</mml:mi></mml:mrow></mml:mrow><mml:mn>20</mml:mn></mml:msub></mml:math> Thin Films via All-Solid-State <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" displ. Physical Review Applied, 2019, 12, .	3.8	11
14	Magnetoelastic anisotropy of antiferromagnetic materials. Applied Physics Letters, 2019, 115, .	3.3	12
15	Stretchable spin valve with strain-engineered wrinkles grown on elastomeric polydimethylsiloxane. Journal Physics D: Applied Physics, 2019, 52, 095003.	2.8	14
16	Direct imaging of cross-sectional magnetization reversal in an exchange-biased CoFeB/IrMn bilayer. Physical Review B, 2018, 97, .	3.2	11
17	Investigation of magnetization reversal process in pinned CoFeB thin film by in-situ Lorentz TEM. Chinese Physics B, 2018, 27, 047502.	1.4	1
18	Electric field control of magnetic properties in FeRh/PMN-PT heterostructures. AIP Advances, 2018, 8, .	1.3	19

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19	Flexible magnetic thin films and devices. Journal of Semiconductors, 2018, 39, 011006.	3.7	46
20	Spin-valve-like magnetoresistance in a Ni-Mn-In thin film. Physical Review B, 2018, 97, .	3.2	4
21	2D Magnetic Mesocrystals for Bit Patterned Media. Advanced Materials Interfaces, 2018, 5, 1800997.	3.7	12
22	Effect of epitaxial strain and lattice mismatch on magnetic and transport behaviors in metamagnetic FeRh thin films. AIP Advances, 2017, 7, .	1.3	24
23	Enhanced stress-invariance of magnetization direction in magnetic thin films. Applied Physics Letters, 2017, 111, .	3.3	22
24	Determination of stress-coefficient of magnetoelastic anisotropy in flexible amorphous CoFeB film by anisotropic magnetoresistance. Applied Physics Letters, 2017, 111, .	3.3	19
25	High-throughput investigation of orientations effect on nanoscale magnetization reversal in cobalt ferrite thin films induced by electric field. Applied Physics Letters, 2017, 111, 162401.	3.3	9
26	Magnetic anisotropy and high-frequency property of flexible FeCoTa films obliquely deposited on a wrinkled topography. Scientific Reports, 2017, 7, 2837.	3.3	23
27	Effect of NiO inserted layer on spin-Hall magnetoresistance in Pt/NiO/YIG heterostructures. Applied Physics Letters, 2016, 109, .	3.3	55
28	Magnetostrictive GMR spin valves with composite FeGa/FeCo free layers. AIP Advances, 2016, 6, .	1.3	22
29	Effect of IrMn inserted layer on anomalous-Hall resistance and spin-Hall magnetoresistance in Pt/IrMn/YIG heterostructures. Journal of Applied Physics, 2016, 120, .	2.5	6
30	Tuning magnetic anisotropy of amorphous CoFeB film by depositing on convex flexible substrates. AIP Advances, 2016, 6, .	1.3	21
31	Surface morphology and magnetic property of wrinkled FeGa thin films fabricated on elastic polydimethylsiloxane. Applied Physics Letters, 2016, 108, .	3.3	26
32	Stretchable Spin Valve with Stable Magnetic Field Sensitivity by Ribbon-Patterned Periodic Wrinkles. ACS Nano, 2016, 10, 4403-4409.	14.6	57
33	Influence of Thermal Deformation on Exchange Bias in FeGa/IrMn Bilayers Grown on Flexible Polyvinylidene Fluoride Membranes. IEEE Transactions on Magnetics, 2016, 52, 1-4.	2.1	4
34	Anisotropic field-induced melting of orbital ordered structure inPr0.6Ca0.4MnO3. Physical Review B, 2015, 91, .	3.2	7
35	Magnetization reversal in epitaxial exchange-biased IrMn/FeGa bilayers with anisotropy geometries controlled by oblique deposition. Physical Review B, 2015, 91, .	3.2	19
36	Extraordinary Hall resistance and unconventional magnetoresistance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Pt</mml:mi><mml:mo>/</mml:mo><mml:mi> Physical Review B, 2015, 92, .	3.2	14

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37	Pure spin-Hall magnetoresistance in Rh/Y3Fe5O12 hybrid. Scientific Reports, 2015, 5, 17734.	3.3	25
38	Cooling field tuned magnetic phase transition and exchange bias-like effect in Y0.9Pr0.1CrO3. Applied Physics Letters, 2015, 107, .	3.3	30
39	Strain assisted electrocaloric effect in PbZr0.95Ti0.05O3 films on 0.7Pb(Mg1/3Nb2/3)O3-0.3PbTiO3 substrate. Scientific Reports, 2015, 5, 16164.	3.3	9
40	Static and high frequency magnetic properties of FeGa thin films deposited on convex flexible substrates. Applied Physics Letters, 2015, 106, .	3.3	52
41	Guest Editorial â€" Spintronics: Materials, Devices, and Physics. Spin, 2015, 05, 1502002.	1.3	0
42	Modulation of Magnetic Anisotropy in Flexible Multiferroic FeGa/PVDF Heterostructures Under Various Strains. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
43	Thermally assisted electric field control of magnetism in flexible multiferroic heterostructures. Scientific Reports, 2015, 4, 6925.	3.3	12
44	Unraveling how electronic and spin structures control macroscopic properties of manganite ultra-thin films. NPG Asia Materials, 2015, 7, e196-e196.	7.9	20
45	Magnetic Anisotropy and Reversal in Epitaxial FeGa/MgO(001) Films Deposited at Oblique Incidence. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
46	Unusual anisotropic magnetoresistance in charge-orbital ordered Nd0.5Sr0.5MnO3 polycrystals. Journal of Applied Physics, 2014, 116, .	2.5	4
47	Electric-field control of magnetic anisotropy in Fe81Ga19/BaTiO3 heterostructure films. AIP Advances, 2014, 4, 117113.	1.3	14
48	Magneto-mechanical coupling effect in amorphous Co40Fe40B20 films grown on flexible substrates. Applied Physics Letters, 2014, 105, .	3.3	60
49	Positive temperature coefficient of magnetic anisotropy in polyvinylidene fluoride (PVDF)-based magnetic composites. Scientific Reports, 2014, 4, 6615.	3.3	34
50	Origin of the uniaxial magnetic anisotropy in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub></mml:math>MnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	3.2	37
51	Oxygen-driven anisotropic transport in ultra-thin manganite films. Nature Communications, 2013, 4, 2778.	12.8	68
52	Temperature controlled c axis elongated low symmetry phase BiFeO3 thin film on STO substrate. AIP Advances, 2013, 3, 012110.	1.3	3
53	Exchange Bias and Inverse Magnetocaloric Effect in Co and Mn Co-Doped Ni2MnGa Shape Memory Alloy. Metals, 2013, 3, 69-76.	2.3	15
54	Large exchange bias obtainable through zero-field cooling from an unmagnetized state in Ni-Mn-Sn alloys. Journal of Applied Physics, 2012, 111, 043912.	2.5	45

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55	Large Exchange Bias after Zero-Field Cooling from an Unmagnetized State. Physical Review Letters, 2011, 106, 077203.	7.8	279
56	Enhanced magnetoresistance through magnetic-field-induced phase transition in Ni2MnGa co-doped with Co and Mn. Journal of Magnetism and Magnetic Materials, 2010, 322, 715-717.	2.3	16
57	Strong thermal-history-dependent magnetoresistance behavior in Ni49.5Mn34.5In16. Journal of Applied Physics, 2009, 106, 063909.	2.5	39
58	A second-order ferromagnetic transition in the martensitic state of Ni49.5Mn32.5Cu4Sn14: A critical behavior study. Journal of Applied Physics, 2009, 105, .	2.5	26
59	Exchange bias and its training effect in the martensitic state of bulk polycrystalline Ni49.5Mn34.5In16. Journal of Applied Physics, 2008, 104, .	2.5	62
60	Ultrasonic study on YBa2(Cu1â^'xZnx)3O7â^'Î´. Superconductor Science and Technology, 2007, 20, 564-568.	3.5	2
61	In-plane substitution effect on the local structure of La1.88Sr0.12CuO4. Journal of Applied Physics, 2007, 102, 063910.	2.5	1
62	Effect of Ce content on the structure and transport properties of the Ru-1222 system. Solid State Communications, 2007, 143, 267-271.	1.9	3
63	Crossover of magnetoresistance from negative to positive in the heterojunction composed of La0.82Ca0.18MnO3 and 0.5wt% Nb-doped SrTiO3. Applied Physics Letters, 2006, 88, 232508.	3.3	31