

Baomin Wang

List of Publications by Year in descending order

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all docs

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docs citations

64
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Large Exchange Bias after Zero-Field Cooling from an Unmagnetized State. Physical Review Letters, 2011, 106, 077203.	7.8	279
2	Oxygen-driven anisotropic transport in ultra-thin manganite films. Nature Communications, 2013, 4, 2778.	12.8	68
3	Exchange bias and its training effect in the martensitic state of bulk polycrystalline Ni _{49.5} Mn _{34.5} In ₁₆ . Journal of Applied Physics, 2008, 104, .	2.5	62
4	Magneto-mechanical coupling effect in amorphous Co ₄₀ Fe ₄₀ B ₂₀ films grown on flexible substrates. Applied Physics Letters, 2014, 105, .	3.3	60
5	Stretchable Spin Valve with Stable Magnetic Field Sensitivity by Ribbon-Patterned Periodic Wrinkles. ACS Nano, 2016, 10, 4403-4409.	14.6	57
6	Effect of NiO inserted layer on spin-Hall magnetoresistance in Pt/NiO/YIG heterostructures. Applied Physics Letters, 2016, 109, .	3.3	55
7	Static and high frequency magnetic properties of FeGa thin films deposited on convex flexible substrates. Applied Physics Letters, 2015, 106, .	3.3	52
8	Flexible magnetic thin films and devices. Journal of Semiconductors, 2018, 39, 011006.	3.7	46
9	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
10	Strong thermal-history-dependent magnetoresistance behavior in Ni _{49.5} Mn _{34.5} In ₁₆ . Journal of Applied Physics, 2009, 106, 063909.	2.5	39
11	Origin of the anisotropic magnetic anisotropy in La _{0.7} Sr _{0.3} MnO ₃ . Scientific Reports, 2014, 4, 6615.	3.2	37
12	Positive temperature coefficient of magnetic anisotropy in polyvinylidene fluoride (PVDF)-based magnetic composites. Scientific Reports, 2014, 4, 6615.	3.3	34
13	Crossover of magnetoresistance from negative to positive in the heterojunction composed of La _{0.82} Ca _{0.18} MnO ₃ and 0.5wt% Nb-doped SrTiO ₃ . Applied Physics Letters, 2006, 88, 232508.	3.3	31
14	Cooling field tuned magnetic phase transition and exchange bias-like effect in Y _{0.9} Pr _{0.1} CrO ₃ . Applied Physics Letters, 2015, 107, .	3.3	30
15	A second-order ferromagnetic transition in the martensitic state of Ni _{49.5} Mn _{32.5} Cu ₄ Sn ₁₄ : A critical behavior study. Journal of Applied Physics, 2009, 105, .	2.5	26
16	Surface morphology and magnetic property of wrinkled FeGa thin films fabricated on elastic polydimethylsiloxane. Applied Physics Letters, 2016, 108, .	3.3	26
17	Pure spin-Hall magnetoresistance in Rh/Y ₃ Fe ₅ O ₁₂ hybrid. Scientific Reports, 2015, 5, 17734.	3.3	25
18	Effect of epitaxial strain and lattice mismatch on magnetic and transport behaviors in metamagnetic FeRh thin films. AIP Advances, 2017, 7, .	1.3	24

#	ARTICLE	IF	CITATIONS
19	Magnetic anisotropy and high-frequency property of flexible FeCoTa films obliquely deposited on a wrinkled topography. <i>Scientific Reports</i> , 2017, 7, 2837.	3.3	23
20	Magnetostrictive GMR spin valves with composite FeGa/FeCo free layers. <i>AIP Advances</i> , 2016, 6, .	1.3	22
21	Enhanced stress-invariance of magnetization direction in magnetic thin films. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	22
22	Tuning magnetic anisotropy of amorphous CoFeB film by depositing on convex flexible substrates. <i>AIP Advances</i> , 2016, 6, .	1.3	21
23	Unraveling how electronic and spin structures control macroscopic properties of manganite ultra-thin films. <i>NPG Asia Materials</i> , 2015, 7, e196-e196.	7.9	20
24	Magnetization reversal in epitaxial exchange-biased IrMn/FeGa bilayers with anisotropy geometries controlled by oblique deposition. <i>Physical Review B</i> , 2015, 91, .	3.2	19
25	Determination of stress-coefficient of magnetoelastic anisotropy in flexible amorphous CoFeB film by anisotropic magnetoresistance. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	19
26	Electric field control of magnetic properties in FeRh/PMN-PT heterostructures. <i>AIP Advances</i> , 2018, 8, .	1.3	19
27	Enhanced magnetoresistance through magnetic-field-induced phase transition in Ni ₂ MnGa co-doped with Co and Mn. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 715-717.	2.3	16
28	Manipulation of Exchange Bias Effect via All-Solid-State Li^+ -Ion Redox Capacitor with Antiferromagnetic Electrode. <i>Physical Review Applied</i> , 2020, 14, .	3.8	16
29	Exchange Bias and Inverse Magnetocaloric Effect in Co and Mn Co-Doped Ni ₂ MnGa Shape Memory Alloy. <i>Metals</i> , 2013, 3, 69-76.	2.3	15
30	Electric-field control of magnetic anisotropy in Fe ₈₁ Ga ₁₉ /BaTiO ₃ heterostructure films. <i>AIP Advances</i> , 2014, 4, 117113.	1.3	14
31	Extraordinary Hall resistance and unconventional magnetoresistance in $\text{Pt}/\text{Co}/\text{MnO}_2/\text{Pt}$ heterostructure. <i>Physical Review B</i> , 2015, 92, .	3.2	14
32	Stretchable spin valve with strain-engineered wrinkles grown on elastomeric polydimethylsiloxane. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 095003.	2.8	14
33	Current-induced Néel order switching facilitated by magnetic phase transition. <i>Nature Communications</i> , 2022, 13, 1629.	12.8	13
34	Thermally assisted electric field control of magnetism in flexible multiferroic heterostructures. <i>Scientific Reports</i> , 2015, 4, 6925.	3.3	12
35	2D Magnetic Mesocrystals for Bit Patterned Media. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800997.	3.7	12
36	Magnetoelastic anisotropy of antiferromagnetic materials. <i>Applied Physics Letters</i> , 2019, 115, .	3.3	12

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37	Direct imaging of cross-sectional magnetization reversal in an exchange-biased CoFeB/IrMn bilayer. Physical Review B, 2018, 97, .	3.2	11
38	Reversibly controlled magnetic domains of Co film via electric field driven oxygen migration at nanoscale. Applied Physics Letters, 2019, 114, .	3.3	11
39	Reversible Control of Magnetic Anisotropy and Magnetization in Amorphous $\text{Co}_{40}\text{Fe}_{60}$ Thin Films via All-Solid-State Physical Review Applied, 2019, 12, .	3.8	11
40	Strain assisted electrocaloric effect in $\text{PbZr}_{0.95}\text{Ti}_{0.05}\text{O}_3$ films on $0.7\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - 0.3PbTiO_3 substrate. Scientific Reports, 2015, 5, 16164.	3.3	9
41	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
42	Method for Assembling Nanosamples and a Cantilever for Dynamic Cantilever Magnetometry. Physical Review Applied, 2019, 11, .	3.8	9
43	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
44	Anisotropic field-induced melting of orbital ordered structure in $\text{Pr}_{0.6}\text{Ca}_{0.4}\text{MnO}_3$. Physical Review B, 2015, 91, .	3.2	7
45	Effect of isothermal crystallization in antiferromagnetic IrMn on the formation of spontaneous exchange bias. Applied Physics Letters, 2021, 118, .	3.3	7
46	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
47	Unusual anisotropic magnetoresistance in charge-orbital ordered $\text{Nd}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ polycrystals. Journal of Applied Physics, 2014, 116, .	2.5	4
48	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
49	Spin-valve-like magnetoresistance in a Ni-Mn-In thin film. Physical Review B, 2018, 97, .	3.2	4
50	Inferring the magnetic anisotropy of a nanosample through dynamic cantilever magnetometry measurements. Applied Physics Letters, 2020, 116, 193102.	3.3	4
51	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
52	Temperature controlled c axis elongated low symmetry phase BiFeO_3 thin film on STO substrate. AIP Advances, 2013, 3, 012110.	1.3	3
53	Preparation and magnetic properties of wrinkled FeRh flexible films. AIP Advances, 2020, 10, 025327.	1.3	3
54	Crystal Orientations Dependent Polarization Reversal in Ferroelectric $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ Thin Films for Multilevel Data Storage Applications. Advanced Materials Interfaces, 2021, 8, 2100871.	3.7	3

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55	Ultrasonic study on $\text{YBa}_2(\text{Cu}_{1-x}\text{Zn}_x)\text{O}_{7-\delta}$. Superconductor Science and Technology, 2007, 20, 564-568.	3.5	2
56	Magnetic Anisotropy and Reversal in Epitaxial FeGa/MgO(001) Films Deposited at Oblique Incidence. IEEE Transactions on Magnetism, 2015, 51, 1-4.	2.1	2
57	Origin of magnetic field-induced magnetic anisotropy in amorphous CoFeB thin films. AIP Advances, 2022, 12, .	1.3	2
58	In-plane substitution effect on the local structure of $\text{La}_{1.88}\text{Sr}_{0.12}\text{CuO}_4$. Journal of Applied Physics, 2007, 102, 063910.	2.5	1
59	Modulation of Magnetic Anisotropy in Flexible Multiferroic FeGa/PVDF Heterostructures Under Various Strains. IEEE Transactions on Magnetism, 2015, 51, 1-4.	2.1	1
60	Investigation of magnetization reversal process in pinned CoFeB thin film by in-situ Lorentz TEM. Chinese Physics B, 2018, 27, 047502.	1.4	1
61	Electric Field Control of Magnetic Properties by Means of Li^+ Migration in FeRh Thin Film. Magnetochemistry, 2021, 7, 45.	2.4	1
62	Mechanical Analysis and Experimental Studies of the Transverse Strain in Wrinkled Metallic Thin Films. Metals, 2021, 11, 427.	2.3	1
63	Guest Editorial "Spintronics: Materials, Devices, and Physics. Spin, 2015, 05, 1502002.	1.3	0