

Baogen Shen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Two-dimensional conducting states in infinite-layer oxide/perovskite oxide hetero-structures. Journal of Physics Condensed Matter, 2022, 34, 035003.	1.8	0
2	Unipolar electric-field-controlled nonvolatile multistate magnetic memory in FeRh/(001)PMN-PT heterostructures over a broad temperature span. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	4
3	Manipulation of topological spin configuration via tailoring thickness in van der Waals ferromagnetic $\text{Fe}_5\text{V}_2\text{Si}_2$. Physical Review B, 2022, 105, .	3.2	19
4	Exchange interaction and demagnetization process of high-abundance rare-earth magnets sintered using dual alloy method. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	3
5	Robust Electronic Structure of Manganite-Buffered Oxide Interfaces with Extreme Mobility Enhancement. ACS Nano, 2022, 16, 6437-6443.	14.6	3
6	Enhanced Performance of FeRh upon Frequent Alternating Magnetic Fields in FeRh Alloys by Introducing Second Phases. ACS Applied Materials & Interfaces, 2022, 14, 18293-18301.	8.0	11
7	Reversible colossal barocaloric effect dominated by disordering of organic chains in $(\text{CH}_3)_2\text{NH}_2\text{MnCl}_4$ single crystals. NPG Asia Materials, 2022, 14, .	7.9	7
8	Field-Free Magnetization Switching Driven by Spin-Orbit Torque in FeCrPt Single Layer. Advanced Functional Materials, 2022, 32, .	14.9	10
9	Exploration of nontrivial topological domain structures in the equilibrium state of magnetic nanodisks. Journal of Materials Science, 2021, 56, 4677-4685.	3.7	7
10	Electric field control of magnetism through modulating phase separation in (011)-Nd _{0.5} Sr _{0.5} MnO ₃ /PMN-PT heterostructures. Nanoscale, 2021, 13, 8030-8037.	5.6	2
11	A Distinct Spin Structure and Giant Baromagnetic Effect in MnNiGe Compounds with Fe-Doping. Journal of the American Chemical Society, 2021, 143, 6798-6804.	13.7	6
12	Large Low-Field Magnetoresistance (LFMR) Effect in Free-Standing La _{0.7} Sr _{0.3} MnO ₃ Films. ACS Applied Materials & Interfaces, 2021, 13, 28442-28450.	8.0	10
13	Asymmetric interfaces sandwiched between infinite-layer oxides and perovskite oxides. Physical Review B, 2021, 104, .	3.2	1
14	Intense ferromagnetic fluctuations preceding magnetoelastic first-order transitions in giant magnetocaloric $\text{La}_2\text{Fe}_2\text{O}_7$. Physical Review Materials, 2021, 5, .	2.4	2
15	Anisotropic bilinear magnetoresistance in (110) SrTiO_3 -based two-dimensional electron gas. Physical Review B, 2021, 104, .	3.2	4
16	Spontaneous Topological Magnetic Transitions in NdCo ₅ Rare-Earth Magnets. Advanced Materials, 2021, 33, e2103751.	21.0	23
17	Field-free topological behavior in the magnetic domain wall of ferrimagnetic GdFeCo. Nature Communications, 2021, 12, 5604.	12.8	9
18	Strengthened caloric effect in MnCoSi under combined applications of magnetic field and hydrostatic pressure. Journal of Materials Science, 2021, 56, 20060-20070.	3.7	5

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19	Infinite-layer/perovskite oxide heterostructure-induced high-spin states in SrCuO ₂ /SrRuO ₃ bilayer films. <i>Materials Horizons</i> , 2021, 8, 3468-3476.	12.2	8
20	Enhancement of phonon skew scattering in epitaxial Pt/Co/Pt trilayers by crystal engineering. <i>Physical Review B</i> , 2021, 104, .	3.2	2
21	Cone-spiral magnetic ordering dominated lattice distortion and giant negative thermal expansion in Fe-doped MnNiGe compounds. <i>Materials Horizons</i> , 2020, 7, 804-810.	12.2	19
22	Microstructures and magnetic properties of Co-substituted Ce-Fe-B amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153098.	5.5	8
23	Direct observation of multiple magnetic transitions in the La ₃ NiGe ₂ -type compounds. <i>Applied Physics Letters</i> , 2020, 117, 022401.	3.3	0
24	Laser pulse induced efficient terahertz emission from Co/Al heterostructures. <i>Physical Review B</i> , 2020, 102, .	3.2	13
25	Magnetic transition behavior and large topological Hall effect in hexagonal Mn ₂ xFe _{1+x} Sn (x=0.01). <i>Applied Physics Letters</i> , 2020, 117, .	3.3	9
26	Magnetic Skyrmions in a Hall Balance with Interfacial Canted Magnetizations. <i>Advanced Materials</i> , 2020, 32, e1907452.	21.0	26
27	Spontaneous (Anti)meron Chains in the Domain Walls of van der Waals Ferromagnetic Fe ₅ GeTe ₂ . <i>Advanced Materials</i> , 2020, 32, e2005228.	21.0	53
28	Electric Tuning of Magnetic Anisotropy and Exchange Bias of La _{0.8} Sr _{0.2} CoO ₃ /La _{0.67} Sr _{0.33} MnO ₃ Bilayer Films. <i>Physical Review Applied</i> , 2020, 14, .	3.8	14
29	Local Disorder-Induced Elevation of Intrinsic Anomalous Hall Conductance in an Electron-Doped Magnetic Weyl Semimetal. <i>Physical Review Letters</i> , 2020, 125, 086602.	7.8	45
30	Localized spin-orbit polaron in magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . <i>Nature Communications</i> , 2020, 11, 5613.	12.8	53
31	Long-Range Magnetic Order in Oxide Quantum Wells Hosting Two-Dimensional Electron Gases. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28775-28782.	8.0	7
32	Multiple transitions and wide refrigeration temperature range in R ₃ NiSi ₂ (R= Tb, Dy) compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166551.	2.3	5
33	Spin reorientation at (110)-La _{2/3} Sr _{1/3} MnO ₃ /LaCoO ₃ interfaces by orbital/charge reconstruction. <i>APL Materials</i> , 2020, 8, .	5.1	3
34	33% Giant Anomalous Hall Current Driven by Both Intrinsic and Extrinsic Contributions in Magnetic Weyl Semimetal Co ₃ Sn ₂ S ₂ . <i>Advanced Functional Materials</i> , 2020, 30, 2000830.	14.9	44
35	Spontaneous magnetic bubbles and large topological Hall effect in Mn _{3-x} Fe _x Sn compound. <i>Scripta Materialia</i> , 2020, 187, 268-273.	5.2	7
36	Strain control of phase transition and magnetocaloric effect in Nd _{0.5} Sr _{0.5} MnO ₃ thin films. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	3

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37	Perpendicular magnetic anisotropy in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_{2.5+\delta}/\text{La}_2/3\text{Sr}_1/3\text{MnO}_3/\text{La}_{1-x}\text{Sr}_x\text{CoO}_{2.5+\delta}$ trilayers ($x=0.05\text{--}0.5$). Physical Review B, 2019, 100, .	3.2	13
38	Perpendicular magnetic anisotropy in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_{2.5+\delta}/\text{La}_2/3\text{Sr}_1/3\text{MnO}_3/\text{La}_{1-x}\text{Sr}_x\text{CoO}_{2.5+\delta}$ trilayers ($x=0.05\text{--}0.5$). Physical Review B, 2019, 100, .	3.2	11
39	Thermal Spin Injection and Inverse Edelstein Effect of the Two-Dimensional Electron Gas at EuO/KTaO_3 Interfaces. Nano Letters, 2019, 19, 1605-1612.	9.1	30
40	Oxide Interfaces: Diluted Oxide Interfaces with Tunable Ground States (Adv. Mater. 10/2019). Advanced Materials, 2019, 31, 1970072.	21.0	3
41	Low-field formation of room-temperature biskyrmions in centrosymmetric MnPdGa magnet. Applied Physics Letters, 2019, 114, .	3.3	27
42	Interfacial coupling-induced distinct magnetic structure in $\text{La}_{1/2}\text{Sr}_{1/2}\text{CoO}_{2.5+\delta}/\text{La}_2/3\text{Sr}_1/3\text{MnO}_3/\text{La}_{1/2}\text{Sr}_{1/2}\text{CoO}_{2.5+\delta}$ heterostructure. AIP Advances, 2019, 9, 035130.	1.3	2
43	On the anisotropies of magnetization and electronic transport of magnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$. Applied Physics Letters, 2019, 115, 212403.	3.3	31
44	Tuning the Magnetic Anisotropy of $\text{La}_2/3\text{Sr}_1/3\text{MnO}_3$ by Controlling the Structure of SrCoO_x in the Corresponding Bilayers Using Ionic-Liquid Gating. Physical Review Applied, 2019, 12, .	3.8	15
45	Unusual Electric and Optical Tuning of KTaO_3 -Based Two-Dimensional Electron Gases with 5d Orbitals. ACS Nano, 2019, 13, 609-615.	14.6	52
46	Diluted Oxide Interfaces with Tunable Ground States. Advanced Materials, 2019, 31, e1805970.	21.0	28
47	Strong anisotropy and its electric tuning for brownmillerite $\text{SrCoO}_{2.5}$ films with different crystal orientations. Physical Review Materials, 2019, 3, .	2.4	13
48	Magnetic two-dimensional electron gases with high Curie temperatures at $\text{LaAlO}_3/\text{SrTiO}_3$ interfaces. Physical Review B, 2018, 97, .	1.3	22
49	In-plane reversal of the magnetic anisotropy in (110)-oriented $\text{LaCoO}_3/\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ heterostructures. AIP Advances, 2018, 8, .	1.3	1
50	Complex magnetic properties and large magnetocaloric effects in RCoGe ($R=\text{Tb}, \text{Dy}$) compounds. AIP Advances, 2018, 8, .	1.3	6
51	Tuning the Two-Dimensional Electron Gas at Oxide Interfaces with Ti^{3d} Configurations: Evidence from X-ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2018, 10, 1434-1439.	8.0	15
52	Metallic conduction and ferromagnetism in $\text{MAl}_2\text{O}_4/\text{SrTiO}_3$ spinel/perovskite heterostructures ($M=\text{Fe}, \text{Co}, \text{Ni}$). Applied Physics Letters, 2018, 113, .	3.3	6
53	Relaxation Dynamics of Zero-Field Skyrmions over a Wide Temperature Range. Nano Letters, 2018, 18, 7777-7783.	9.1	22
54	Spontaneous nanometric magnetic bubbles with various topologies in spin-reoriented $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. Applied Physics Letters, 2018, 113, .	3.3	7

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55	Magnetic Anisotropy Controlled by Distinct Interfacial Lattice Distortions at the $\text{La}^{1-x}\text{Sr}_x\text{CoO}_3/\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 40951-40957.		
56	High-Mobility Spin-Polarized Two-Dimensional Electron Gases at EuO/KTaO_3 Interfaces. Physical Review Letters, 2018, 121, 116803.	7.8	79
57	Negative Thermal Expansion in the Materials With Giant Magnetocaloric Effect. Frontiers in Chemistry, 2018, 6, 438.	3.6	22
58	Enhanced Field Modulation Sensitivity and Anomalous Polarity-Dependency Emerged in Spatial-Confined Manganite Strips. ACS Applied Materials & Interfaces, 2018, 10, 32597-32606.	8.0	0
59	Symmetry mismatch-driven perpendicular magnetic anisotropy for perovskite/brownmillerite heterostructures. Nature Communications, 2018, 9, 1923.	12.8	63
60	Two-dimensional electron gas at manganite buffered $\text{LaAlO}_3/\text{SrTiO}_3$ (001) interface by spin coating chemical methods. Applied Physics Letters, 2018, 113, 071601.	3.3	3
61	Anatase TiO_2 -based two-dimensional electron gases generated by low-energy argon-ion irradiation. Applied Physics Letters, 2018, 112, 241601.	3.3	2
62	Zero-field skyrmions generated via premartensitic transition in $\text{Ni}_{50}\text{Mn}_{35.2}\text{In}_{14.8}$ alloy. Physical Review Materials, 2018, 2, .	2.4	9
63	Antiferromagnetic interlayer coupling and thus induced distinct spin texture for the $[\text{LaMnO}_3/\text{LaCoO}_3]_5$ superlattices. Nanoscale, 2017, 9, 3476-3484.	5.6	12
64	Observation of Various and Spontaneous Magnetic Skyrmionic Bubbles at Room Temperature in a Frustrated Kagome Magnet with Uniaxial Magnetic Anisotropy. Advanced Materials, 2017, 29, 1701144.	21.0	189
65	Highly Mobile Two-Dimensional Electron Gases with a Strong Gating Effect at the Amorphous $\text{LaAlO}_3/\text{KTaO}_3$ Interface. ACS Applied Materials & Interfaces, 2017, 9, 36456-36461.	8.0	69
66	Real-Space Observation of Nonvolatile Zero-Field Biskyrmion Lattice Generation in MnNiGa Magnet. Nano Letters, 2017, 17, 7075-7079.	9.1	64
67	In situ observation of magnetic vortex manipulation by external fields in amorphous CeFeB ribbon. Acta Materialia, 2017, 140, 465-471.	7.9	22
68	Realization of zero-field skyrmions with high-density via electromagnetic manipulation in $\text{Pt}/\text{Co}/\text{Ta}$ multilayers. Applied Physics Letters, 2017, 111, .	3.3	57
69	Joint effect of gate bias and light illumination on metallic $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Applied Physics Letters, 2017, 111, .	3.3	6
70	Structural and Magnetic Properties of $\text{LaCoO}_3/\text{SrTiO}_3$ Multilayers. ACS Applied Materials & Interfaces, 2016, 8, 18328-18333.	8.0	19
71	Electric Control of the Hall effect in $\text{Pt}/\text{Bi}_{0.9}\text{La}_{0.1}\text{FeO}_3$ bilayers. Scientific Reports, 2016, 6, 20330.	3.3	34
72	Critical dependence of magnetostructural coupling and magnetocaloric effect on particle size in Mn-Fe-Ni-Ge compounds. Scientific Reports, 2016, 6, 20993.	3.3	26

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73	Evidence for lattice-polarization-enhanced field effects at the SrTiO ₃ -based heterointerface. Scientific Reports, 2016, 6, 22418.	3.3	7
74	Manipulating Ce Valence in RE ₂ Fe ₁₄ B Tetragonal Compounds by La-Ce Co-doping: Resultant Crystallographic and Magnetic Anomaly. Scientific Reports, 2016, 6, 30194.	3.3	65
75	A Centrosymmetric Hexagonal Magnet with Superstable Biskyrmion Magnetic Nanodomains in a Wide Temperature Range of 100–340 K. Advanced Materials, 2016, 28, 6887-6893.	21.0	209
76	Large magnetocaloric effect in Er ₁₂ Co ₇ compound and the enhancement of ΔT_{FWHM} by Ho-substitution. Journal of Alloys and Compounds, 2016, 680, 617-622.	5.5	24
77	The Martensitic Transition and Magnetocaloric Effect of Mn-Poor MnCoGe Melt-Spun Ribbons. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
78	Giant rotating magnetocaloric effect induced by highly texturing in polycrystalline DyNiSi compound. Scientific Reports, 2015, 5, 11929.	3.3	72
79	Effect of Si Substitution on Structure and Magnetic Properties in Mischmetal-Fe-B Ribbons. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	1
80	Structure and magnetic properties of low-temperature phase Mn-Bi nanosheets with ultra-high coercivity and significant anisotropy. Journal of Applied Physics, 2014, 115, 17A742.	2.5	10
81	Enhanced mechanical properties and large magnetocaloric effects in bonded La(Fe, Si) ₁₃ -based magnetic refrigeration materials. Applied Physics Letters, 2014, 104, .	3.3	44
82	Structure evolution and entropy change of temperature and magnetic field induced magneto-structural transition in Mn _{1.1} Fe _{0.9} P _{0.76} Ge _{0.24} . Journal of Applied Physics, 2013, 113, .	2.5	11
83	Effects of interstitial H and/or C atoms on the magnetic and magnetocaloric properties of La(Fe, _{1-x} Co _x) ₁₁ Co ₂ . Journal of Applied Physics, 2013, 113, .	3.1	28
84	Large magnetocaloric effect in metamagnetic HoPdAl. Science China Technological Sciences, 2012, 55, 445-450.	4.0	7
85	Influence of film thickness on the physical properties of manganite heterojunctions. Journal of Applied Physics, 2011, 109, .	2.5	7
86	The magnetization behavior and magnetic viscosity of Sm(Co,Fe,Cu,Zr) ₇ ribbons with different temperature dependence of coercivity. Journal of Applied Physics, 2010, 107, 09A707.	2.5	8
87	Bipolar Resistance Switching in Fully Transparent ZnO:Mg-Based Devices. Applied Physics Express, 2009, 2, 101602.	2.4	55
88	First order reversal curve diagrams of perpendicular magnetic anisotropy films. Journal of Applied Physics, 2009, 106, 103901.	2.5	23
89	A Structural, Magnetic and Mössbauer Study of Tb _{0.3} Dy _{0.7} (Fe _{1-x} Al _x) _{1.95} Alloys. Hyperfine Interactions, 2002, 142, 503-511.	0.5	3
90	Synthesis and magnetic property of condensation product of bis(oxamide oximato)nickel and 1,1'-dicarbonylferrocene. Journal of Applied Physics, 1999, 85, 5702-5704.	2.5	0

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91	Effects of Co addition on magnetic properties and nanocrystallization in amorphous Fe ₈₄ Zr _{3.5} Nb _{3.5} B ₈ Cu ₁ alloy. Journal of Applied Physics, 1999, 86, 6301-6304.	2.5	22
92	Structure and uniaxial magnetocrystalline anisotropy of intermetallic compounds La ₂ Co ₁₇ âˆ™xTi _x . Applied Physics Letters, 1997, 71, 1869-1871.	3.3	17
93	Carbonation process and domain structure in Sm ₂ Fe ₁₇ C _x compounds prepared by gasâ€™solid interaction. Physica Status Solidi A, 1995, 148, 275-282.	1.7	3
94	Preparation and MÃ¶ssbauer study of Gd ₂ Fe ₁₇ C _x (xâ‰°2) with higher carbon concentration by melt quenching. Journal of Applied Physics, 1993, 73, 5893-5895.	2.5	5