Baogen Shen

List of Publications by Year
in descending order

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94 papers	2,068 citations	279798 23 h-index	265206 42 g-index
95 all docs	95 docs citations	95 times ranked	2336 citing authors

#	Article	IF	Citations
1	A Centrosymmetric Hexagonal Magnet with Superstable Biskyrmion Magnetic Nanodomains in a Wide Temperature Range of 100â€“340 K. Advanced Materials, 2016, 28, 6887-6893.	21.0	209
2	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
3	High-Mobility Spin-Polarized Two-Dimensional Electron Gases at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>EuO</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mi>KTaO</mml:mi></ Interfaces. Physical Review Letters, 2018, 121, 116803.	7.8	79
4	Giant rotating magnetocaloric effect induced by highly texturing in polycrystalline DyNiSi compound. Scientific Reports, 2015, 5, 11929.	3.3	72
5	Highly Mobile Two-Dimensional Electron Gases with a Strong Gating Effect at the Amorphous LaAlO₃/KTaO₃ Interface. ACS Applied Materials & Interfaces, 2017, 9, 36456-36461.	8.0	69
6	Manipulating Ce Valence in RE2Fe14B Tetragonal Compounds by La-Ce Co-doping: Resultant Crystallographic and Magnetic Anomaly. Scientific Reports, 2016, 6, 30194.	3.3	65
7	Real-Space Observation of Nonvolatile Zero-Field Biskyrmion Lattice Generation in MnNiGa Magnet. Nano Letters, 2017, 17, 7075-7079.	9.1	64
8	Symmetry mismatch-driven perpendicular magnetic anisotropy for perovskite/brownmillerite heterostructures. Nature Communications, 2018, 9, 1923.	12.8	63
9	Realization of zero-field skyrmions with high-density via electromagnetic manipulation in Pt/Co/Ta multilayers. Applied Physics Letters, 2017, 111, .	3.3	57
10	Bipolar Resistance Switching in Fully Transparent ZnO:Mg-Based Devices. Applied Physics Express, 2009, 2, 101602.	2.4	55
11	Spontaneous (Anti)meron Chains in the Domain Walls of van der Waals Ferromagnetic Fe_{5â^'}_xGeTe₂. Advanced Materials, 2020, 32, e2005228.	21.0	53
12	Localized spin-orbit polaron in magnetic Weyl semimetal Co3Sn2S2. Nature Communications, 2020, 11, 5613.	12.8	53
13	Unusual Electric and Optical Tuning of KTaO₃-Based Two-Dimensional Electron Gases with 5d Orbitals. ACS Nano, 2019, 13, 609-615.	14.6	52
14	Local Disorder-Induced Elevation of Intrinsic Anomalous Hall Conductance in an Electron-Doped Magnetic Weyl Semimetal. Physical Review Letters, 2020, 125, 086602.	7.8	45
15	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
16	33% Giant Anomalous Hall Current Driven by Both Intrinsic and Extrinsic Contributions in Magnetic Weyl Semimetal Co₃Sn₂S₂. Advanced Functional Materials, 2020, 30, 2000830.	14.9	44
17	Electric Control of the Hall effect in Pt/Bi0.9La0.1FeO3 bilayers. Scientific Reports, 2016, 6, 20330.	3.3	34
18	On the anisotropies of magnetization and electronic transport of magnetic Weyl semimetal Co3Sn2S2. Applied Physics Letters, 2019, 115, 212403.	3.3	31

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19	Thermal Spin Injection and Inverse Edelstein Effect of the Two-Dimensional Electron Gas at EuOâ€“KTaO₃ Interfaces. Nano Letters, 2019, 19, 1605-1612.	9.1	30
20	Effects of interstitial H and/or C atoms on the magnetic and magnetocaloric properties of La(Fe,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	5.1	28
21	Diluted Oxide Interfaces with Tunable Ground States. Advanced Materials, 2019, 31, e1805970.	21.0	28
22	Low-field formation of room-temperature biskyrmions in centrosymmetric MnPdGa magnet. Applied Physics Letters, 2019, 114, .	3.3	27
23	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
24	Magnetic Skyrmions in a Hall Balance with Interfacial Canted Magnetizations. Advanced Materials, 2020, 32, e1907452.	21.0	26
25	Large magnetocaloric effect in Er12Co7 compound and the enhancement of ÎTFWHM by Ho-substitution. Journal of Alloys and Compounds, 2016, 680, 617-622.	5.5	24
26	First order reversal curve diagrams of perpendicular magnetic anisotropy films. Journal of Applied Physics, 2009, 106, 103901.	2.5	23
27	Spontaneous Topological Magnetic Transitions in NdCo₅ Rareâ€Earth Magnets. Advanced Materials, 2021, 33, e2103751.	21.0	23
28	Effects of Co addition on magnetic properties and nanocrystallization in amorphous Fe84Zr3.5Nb3.5B8Cu1 alloy. Journal of Applied Physics, 1999, 86, 6301-6304.	2.5	22
29	In situ observation of magnetic vortex manipulation by external fields in amorphous CeFeB ribbon. Acta Materialia, 2017, 140, 465-471.	7.9	22
30	Magnetic two-dimensional electron gases with high Curie temperatures at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaAl</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow><mml:mo>/</mml:mo><mml:mrow><mml:mi>Sr mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>:</mml:mo><mml:mi>Fe</mml:mi></mml:mrow></ interfaces. Physical Review B, 2018, 97, .	3.2	22
31	Relaxation Dynamics of Zero-Field Skyrmions over a Wide Temperature Range. Nano Letters, 2018, 18, 7777-7783.	9.1	22
32	Negative Thermal Expansion in the Materials With Giant Magnetocaloric Effect. Frontiers in Chemistry, 2018, 6, 438.	3.6	22
33	Magnetic Anisotropy Controlled by Distinct Interfacial Lattice Distortions at the La_{1â€“x}Sr_xCoO₃/La_{2/3}Sr_{1/3}MnO₃ Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 40951-40957.	8.0	20
34	Structural and Magnetic Properties of LaCoO3/SrTiO3 Multilayers. ACS Applied Materials & Interfaces, 2016, 8, 18328-18333.	8.0	19
35	Cone-spiral magnetic ordering dominated lattice distortion and giant negative thermal expansion in Fe-doped MnNiGe compounds. Materials Horizons, 2020, 7, 804-810.	12.2	19
36	Manipulation of topological spin configuration via tailoring thickness in van der Waals ferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mrow><mml:mn>5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2022, 105, .	3.2	19

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37	Structure and uniaxial magnetocrystalline anisotropy of intermetallic compounds La2Co17â^'xTix. Applied Physics Letters, 1997, 71, 1869-1871.	3.3	17
38	Tuning the Two-Dimensional Electron Gas at Oxide Interfaces with Tiâ€“O Configurations: Evidence from X-ray Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2018, 10, 1434-1439.	8.0	15
39	Tuning the Magnetic Anisotropy ofLa2/3Sr1/3MnO3by Controlling the Structure ofSrCoOxin the Corresponding Bilayers Using Ionic-Liquid Gating. Physical Review Applied, 2019, 12, .	3.8	15
40	Electric Tuning of Magnetic Anisotropy and Exchange Bias of La0.8Sr0.2CoO3/La0.67Sr0.33MnO3 Bilayer Films. Physical Review Applied, 2020, 14, .	3.8	14
41	Theoretical investigation of magnetic anisotropy at the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub><mml:mi>Mn</mml:mi><mml:msu	3.2	13
42	Laser pulse induced efficient terahertz emission from Co/Al heterostructures. Physical Review B, 2020, 102, .	3.2	13
43	Strong anisotropy and its electric tuning for brownmillerite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrCo</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>2.5</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> films with different crystal orientations. Physical Review Materials, 2019, 3, .	2.4	13
44	Antiferromagnetic interlayer coupling and thus induced distinct spin texture for the [LaMnO₃/LaCoO₃]₅superlattices. Nanoscale, 2017, 9, 3476-3484.	5.6	12
45	Structure evolution and entropy change of temperature and magnetic field induced magneto-structural transition in Mn1.1Fe0.9P0.76Ge0.24. Journal of Applied Physics, 2013, 113, .	2.5	11
46	Perpendicular magnetic anisotropy in La1â^'xSrxCoO2.5+Î´/La2/3Sr1/3MnO3/La1â^'xSrxCoO2.5+Î´ trilayers (x=0.05â€“0.5). Physical Review B, 2019, 100, .	3.2	11
47	Enhanced Performance of Î”T_{ad} upon Frequent Alternating Magnetic Fields in FeRh Alloys by Introducing Second Phases. ACS Applied Materials & Interfaces, 2022, 14, 18293-18301.	8.0	11
48	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
49	Large Low-Field Magnetoresistance (LFMR) Effect in Free-Standing La0.7Sr0.3MnO3 Films. ACS Applied Materials & Interfaces, 2021, 13, 28442-28450.	8.0	10
50	Fieldâ€Free Magnetization Switching Driven by Spinâ€“Orbit Torque in L1₀â€FeCrPt Single Layer. Advanced Functional Materials, 2022, 32, .	14.9	10
51	Magnetic transition behavior and large topological Hall effect in hexagonal Mn2â^'xFe1+xSn (xâ€‰=â€‰0.1) magnet. Applied Physics Letters, 2020, 117, .	3.3	9
52	Field-free topological behavior in the magnetic domain wall of ferrimagnetic GdFeCo. Nature Communications, 2021, 12, 5604.	12.8	9
53	Zero-field skyrmions generated via premartensitic transition in Ni50Mn35.2In14.8 alloy. Physical Review Materials, 2018, 2, .	2.4	9
54	The magnetization behavior and magnetic viscosity of Sm(Co,Fe,Cu,Zr)Z ribbons with different temperature dependence of coercivity. Journal of Applied Physics, 2010, 107, 09A707.	2.5	8

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55	Microstructures and magnetic properties of Co-substituted Ceâ€“Feâ€“B amorphous alloys. Journal of Alloys and Compounds, 2020, 820, 153098.	5.5	8
56	Infinite-layer/perovskite oxide heterostructure-induced high-spin states in SrCuO₂/SrRuO₃ bilayer films. Materials Horizons, 2021, 8, 3468-3476.	12.2	8
57	Influence of film thickness on the physical properties of manganite heterojunctions. Journal of Applied Physics, 2011, 109, .	2.5	7
58	Large magnetocaloric effect in metamagnetic HoPdAl. Science China Technological Sciences, 2012, 55, 445-450.	4.0	7
59	Evidence for lattice-polarization-enhanced field effects at the SrTiO3-based heterointerface. Scientific Reports, 2016, 6, 22418.	3.3	7
60	Spontaneous nanometric magnetic bubbles with various topologies in spin-reoriented La1â^'xSrxMnO3. Applied Physics Letters, 2018, 113, .	3.3	7
61	Long-Range Magnetic Order in Oxide Quantum Wells Hosting Two-Dimensional Electron Gases. ACS Applied Materials & Interfaces, 2020, 12, 28775-28782.	8.0	7
62	Spontaneous magnetic bubbles and large topological Hall effect in Mn3-xFexSn compound. Scripta Materialia, 2020, 187, 268-273.	5.2	7
63	Exploration of nontrivial topological domain structures in the equilibrium state of magnetic nanodisks. Journal of Materials Science, 2021, 56, 4677-4685.	3.7	7
64	Reversible colossal barocaloric effect dominated by disordering of organic chains in (CH3â€“(CH2)nâ^'1â€“NH3)2MnCl4 single crystals. NPG Asia Materials, 2022, 14, .	7.9	7
65	Joint effect of gate bias and light illumination on metallic LaAlO3/SrTiO3 interface. Applied Physics Letters, 2017, 111, .	3.3	6
66	Complex magnetic properties and large magnetocaloric effects in RCoGe (R=Tb, Dy) compounds. AIP Advances, 2018, 8, .	1.3	6
67	Metallic conduction and ferromagnetism in MAl2O4/SrTiO3 spinel/perovskite heterostructures (Mâ€‰=â€‰Fe, Co, Ni). Applied Physics Letters, 2018, 113, .	3.3	6
68	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
69	Preparation and MÃ¶ssbauer study of Gd2Fe17Cx(xâ‰2) with higher carbon concentration by melt quenching. Journal of Applied Physics, 1993, 73, 5893-5895.	2.5	5
70	Multiple transitions and wide refrigeration temperature range in R3NiSi2 (RÂ=ÂTb, Dy) compounds. Journal of Magnetism and Magnetic Materials, 2020, 502, 166551.	2.3	5
71	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
72	Anisotropic bilinear magnetoresistance in (110) <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> -based two-dimensional electron gas. Physical Review B, 2021, 104, .	3.2	4

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73	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
74	Carbonation process and domain structure in Sm2Fe17Cx compounds prepared by gasâ€"solid interaction. Physica Status Solidi A, 1995, 148, 275-282.	1.7	3
75	A Structural, Magnetic and MÃ¶ssbauer Study of Tb0.3Dy0.7(Fe1â^'x Al x)1.95 Alloys. Hyperfine Interactions, 2002, 142, 503-511.	0.5	3
76	Two-dimensional electron gas at manganite buffered LaAlO3/SrTiO3 (001) interface by spin coating chemical methods. Applied Physics Letters, 2018, 113, 071601.	3.3	3
77	Oxide Interfaces: Diluted Oxide Interfaces with Tunable Ground States (Adv. Mater. 10/2019). Advanced Materials, 2019, 31, 1970072.	21.0	3
78	Spin reorientation at (110)-La2/3Sr1/3MnO3/LaCoO3 interfaces by orbital/charge reconstruction. APL Materials, 2020, 8, .	5.1	3
79	Strain control of phase transition and magnetocaloric effect in Nd0.5Sr0.5MnO3 thin films. Applied Physics Letters, 2020, 116, .	3.3	3
80	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
81	Robust Electronic Structure of Manganite-Buffered Oxide Interfaces with Extreme Mobility Enhancement. ACS Nano, 2022, 16, 6437-6443.	14.6	3
82	The Martensitic Transition and Magnetocaloric Effect of Mn-Poor MnCoGe Melt-Spun Ribbons. IEEE Transactions on Magnetics, 2015, 51, 1-4.	2.1	2
83	Anatase TiO2-based two-dimensional electron gases generated by low-energy argon-ion irradiation. Applied Physics Letters, 2018, 112, 241601.	3.3	2
84	Interfacial coupling-induced distinct magnetic structure in La1/2Sr1/2CoO2.5+Î´/La2/3Sr1/3MnO3/ La1/2Sr1/2CoO2.5+Î´ heterostructure. AIP Advances, 2019, 9, 035130.	1.3	2
85	Electric field control of magnetism through modulating phase separation in (011)-Nd0.5Sr0.5MnO3/PMN-PT heterostructures. Nanoscale, 2021, 13, 8030-8037.	5.6	2
86	Intense ferromagnetic fluctuations preceding magnetoelastic first-order transitions in giant magnetocaloric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>La</mml:mi><mml:msub><mml:mi>Fe</mml:mi><mml:m Physical Review Materials, 2021, 5, .	2.4	2
87	Enhancement of phonon skew scattering in epitaxial Pt/Co/Pt trilayers by crystal engineering. Physical Review B, 2021, 104, .	3.2	2
88	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
89	In-plane reversal of the magnetic anisotropy in (110)-oriented LaCoO3/La0.67Sr0.33MnO3 heterostructures. AIP Advances, 2018, 8, .	1.3	1
90	Asymmetric interfaces sandwiched between infinite-layer oxides and perovskite oxides. Physical Review B, 2021, 104, .	3.2	1

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91	Synthesis and magnetic property of condensation product of bis(oxamide oximato)nickel and 1,1â€²-dicarbaldehydeferrocene. Journal of Applied Physics, 1999, 85, 5702-5704.	2.5	0
92	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
93	Direct observation of multiple magnetic transitions in the La3NiGe2-type compounds. Applied Physics Letters, 2020, 117, 022401.	3.3	0
94	Two-dimensional conducting states in infinite-layer oxide/perovskite oxide hetero-structures. Journal of Physics Condensed Matter, 2022, 34, 035003.	1.8	0