Enke Liu

List of Publications by Year
in descending order

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227	9,356	46984 47	48277 88
papers	citations	h-index	g-index

230	230	230	6819
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Giant anomalous Hall effect in a ferromagnetic kagome-lattice semimetal. Nature Physics, 2018, 14, 1125-1131.	6.5	876
2	Magnetic Weyl semimetal phase in a KagomÃ© crystal. Science, 2019, 365, 1282-1285.	6.0	518
3	Fermi-arc diversity on surface terminations of the magnetic Weyl semimetal Co ₃ Sn ₂ S ₂. Science, 2019, 365, 1286-1291.	6.0	441
4	Stable magnetostructural coupling with tunable magnetoresponsive effects in hexagonal ferromagnets. Nature Communications, 2012, 3, 873.	5.8	376
5	A new spin gapless semiconductors family: Quaternary Heusler compounds. Europhysics Letters, 2013, 102, 17007.	0.7	222
6	A Centrosymmetric Hexagonal Magnet with Superstable Biskyrmion Magnetic Nanodomains in a Wide Temperature Range of 100â€“340 K. Advanced Materials, 2016, 28, 6887-6893.	11.1	209
7	Artificial intelligence: A powerful paradigm for scientific research. Innovation(China), 2021, 2, 100179.	5.2	200
8	Observation of Magnetic Skyrmion Bubbles in a van der Waals Ferromagnet Fe₃GeTe₂. Nano Letters, 2020, 20, 868-873.	4.5	198
9	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.	11.1	189
10	Zeroâ€Field Nernst Effect in a Ferromagnetic Kagomeâ€Lattice Weylâ€Semimetal Co₃Sn₂S₂. Advanced Materials, 2019, 31, e1806622.	11.1	180
11	Topological surface Fermi arcs in the magnetic Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi></mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	1.1	159
12	Vacancy-tuned paramagnetic/ferromagnetic martensitic transformation in Mn-poor Mn _{1-x} CoGe alloys. Europhysics Letters, 2010, 91, 17003.	0.7	157
13	Realization of multifunctional shape-memory ferromagnets in all-d-metal Heusler phases. Applied Physics Letters, 2015, 107, .	1.5	152
14	Coherent tunneling and giant tunneling magnetoresistance in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Co</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> tunneling junctions. Physical Review B, 2010, 81, .	1.1	139
15	Surface states in bulk single crystal of topological semimetal Co ₃ Sn ₂ S ₂ toward water oxidation. Science Advances, 2019, 5, eaaw9867.	4.7	118
16	Weak Antilocalization Effect and Noncentrosymmetric Superconductivity in a Topologically Nontrivial Semimetal LuPdBi. Scientific Reports, 2014, 4, 5709.	1.6	112
17	Carbonâ€Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. Advanced Energy Materials, 2018, 8, 1801258.	10.2	111
18	Giant magnetocaloric effect in isostructural MnNiGe-CoNiGe system by establishing a Curie-temperature window. Applied Physics Letters, 2013, 102, .	1.5	101

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19	Phase diagram, ferromagnetic martensitic transformation and magnetoresponsive properties of Fe-doped MnCoGe alloys. Journal of Magnetism and Magnetic Materials, 2013, 332, 146-150.	1.0	95
20	Magnetic-field-induced transformation in FeMnGa alloys. Applied Physics Letters, 2009, 95, .	1.5	90
21	Large Linear Magnetoresistance and Shubnikov-de Hass Oscillations in Single Crystals of YPdBi Heusler Topological Insulators. Scientific Reports, 2013, 3, 2181.	1.6	90
22	Electric Field Control of the Magnetocaloric Effect. Advanced Materials, 2015, 27, 801-805.	11.1	88
23	Large elastocaloric effect in directionally solidified all-d-metal Heusler metamagnetic shape memory alloys. Acta Materialia, 2020, 188, 677-685.	3.8	85
24	Magnetostructural martensitic transformations with large volume changes and magneto-strains in all-d-metal Heusler alloys. Applied Physics Letters, 2016, 109, .	1.5	84
25	Crossover of magnetoresistance in the zero-gap half-metallic Heusler alloy Fe ₂ CoSi. Europhysics Letters, 2013, 103, 37011.	0.7	77
26	Unprecedentedly Wide Curieâ€Temperature Windows as Phaseâ€Transition Design Platform for Tunable Magnetoâ€Multifunctional Materials. Advanced Electronic Materials, 2015, 1, 1500076.	2.6	75
27	Giant rotating magnetocaloric effect induced by highly texturing in polycrystalline DyNiSi compound. Scientific Reports, 2015, 5, 11929.	1.6	72
28	Transition from Anomalous Hall Effect to Topological Hall Effect in Hexagonal Non-Collinear Magnet Mn3Ga. Scientific Reports, 2017, 7, 515.	1.6	70
29	Synergistically creating sulfur vacancies in semimetal-supported amorphous MoS2 for efficient hydrogen evolution. Applied Catalysis B: Environmental, 2019, 254, 1-6.	10.8	69
30	Magnetostructural Transformation and Magnetoresponsive Properties of ${m MnNiGe}_{1-x}{m Sn}_{x}$ Alloys. IEEE Transactions on Magnetics, 2011, 47, 4041-4043.	1.2	68
31	Large topological Hall effect in a geometrically frustrated kagome magnet Fe3Sn2. Applied Physics Letters, 2019, 114, .	1.5	68
32	Magneto-transport properties of oriented Mn2CoAl films sputtered on thermally oxidized Si substrates. Applied Physics Letters, 2014, 104, .	1.5	66
33	Multiple magnetic transitions in MnCo1â^'xCuxGe driven by changes in atom separation and exchange interaction. Materials and Design, 2017, 114, 531-536.	3.3	63
34	Creation of Single Chain of Nanoscale Skyrmion Bubbles with Record-High Temperature Stability in a Geometrically Confined Nanostripe. Nano Letters, 2018, 18, 1274-1279.	4.5	62
35	Elastocaloric effect of all-d-metal Heusler NiMnTi(Co) magnetic shape memory alloys by digital image correlation and infrared thermography. Applied Physics Letters, 2019, 114, .	1.5	62
36	Outstanding Comprehensive Performance of La(Fe, Si)₁₃H_y/In Composite with Durable Service Life for Magnetic Refrigeration. Advanced Electronic Materials, 2018, 4, 1700636.	2.6	61

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37	Slaterâ€“Pauling behavior and half-metallicity in Heusler alloys Mn2CuZ (Z = Ge and Sb). Computational Materials Science, 2011, 50, 3119-3122.	1.4	59
38	Dirac Nodal Arc Semimetal PtSn₄: An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. Angewandte Chemie - International Edition, 2019, 58, 13107-13112.	7.2	59
39	Large Nernst power factor over a broad temperature range in polycrystalline Weyl semimetal NbP. Energy and Environmental Science, 2018, 11, 2813-2820.	15.6	57
40	Degradation of black phosphorus: a real-time ³¹ P NMR study. 2D Materials, 2016, 3, 035025.	2.0	53
41	Localized spin-orbit polaron in magnetic Weyl semimetal Co3Sn2S2. Nature Communications, 2020, 11, 5613.	5.8	53
42	Angular dependence of the topological Hall effect in the uniaxial van der Waals ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>3</mml:mn></mml:r Physical Review B, 2019, 100, .	1.1	52
43	Self-assembled two-dimensional hexagonal networks. Journal of Materials Chemistry, 2002, 12, 2856-2858.	6.7	51
44	High electron mobility and large magnetoresistance in the half-Heusler semimetal LuPtBi. Physical Review B, 2015, 92, .	1.1	51
45	Electronic correlations and flattened band in magnetic Weyl semimetal candidate Co3Sn2S2. Nature Communications, 2020, 11, 3985.	5.8	51
46	Large low-field positive magnetoresistance in nonmagnetic half-Heusler ScPtBi single crystal. Applied Physics Letters, 2015, 107, .	1.5	50
47	Structure and magnetic properties of Fe2NiZ (Z=Al, Ga, Si and Ge) Heusler alloys. Physica B: Condensed Matter, 2013, 420, 86-89.	1.3	49
48	Competition of L21 and XA structural ordering in Heusler alloys X2CuAl (XÂ=ÂSc, Ti, V, Cr, Mn, Fe, Co, Ni). Journal of Alloys and Compounds, 2016, 665, 180-185.	2.8	49
49	First-principles investigation of half-metallic ferromagnetism of half-Heusler compounds XYZ. Journal of Magnetism and Magnetic Materials, 2014, 351, 92-97.	1.0	48
50	Emerging chiral edge states from the confinement of a magnetic Weyl semimetal in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>3</mml:mn></mml: mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 101, .	1.1	48
51	Currentâ€Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. Advanced Materials, 2020, 32, e1904815.	11.1	47
52	Giant exchange bias based on magnetic transition in Î³-Fe2MnGa melt-spun ribbons. Applied Physics Letters, 2010, 97, .	1.5	46
53	Local Disorder-Induced Elevation of Intrinsic Anomalous Hall Conductance in an Electron-Doped Magnetic Weyl Semimetal. Physical Review Letters, 2020, 125, 086602.	2.9	45
54	Tunablee_gOrbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. Angewandte Chemie - International Edition, 2021, 60, 5800-5805.	7.2	45

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55	33% Giant Anomalous Hall Current Driven by Both Intrinsic and Extrinsic Contributions in Magnetic Weyl Semimetal Co₃Sn₂S₂. Advanced Functional Materials, 2020, 30, 2000830.	7.8	44
56	STM Study of Two-Dimensional Assemblies of Tricarboxylic Acid Derivatives on Au(111). Journal of Physical Chemistry B, 2004, 108, 11251-11255.	1.2	43
57	Giant topological Hall effect in tetragonal Heusler alloy Mn2PtSn. Scripta Materialia, 2018, 143, 122-125.	2.6	43
58	Manipulating the Topology of Nanoscale Skyrmion Bubbles by Spatially Geometric Confinement. ACS Nano, 2019, 13, 922-929.	7.3	43
59	Electronic structure and possible martensitic transformation in Mn2NiGe andÂNi2MnGe. Intermetallics, 2013, 38, 139-143.	1.8	42
60	NMR Evidence for the Topologically Nontrivial Nature in a Family of Half-Heusler Compounds. Scientific Reports, 2016, 6, 23172.	1.6	41
61	Polymorphic magnetization and local ferromagnetic structure in Co-doped Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>NiGa alloys. Physical Review B, 2011, 84, .	1.1	40
62	Half-metallicity in Fe-based Heusler alloys Fe2TiZ (Z=Ga, Ge, As, In, Sn and Sb). Journal of Magnetism and Magnetic Materials, 2012, 324, 3295-3299.	1.0	40
63	Low-pressure-induced giant barocaloric effect in an all-d-metal Heusler Ni35.5Co14.5Mn35Ti15 magnetic shape memory alloy. APL Materials, 2020, 8, .	2.2	40
64	Evidence for one-dimensional chiral edge states in a magnetic Weyl semimetal Co3Sn2S2. Nature Communications, 2021, 12, 4269.	5.8	40
65	Effect of boron on the martensitic transformation and magnetic properties of Ni50Mn36.5Sb13.5â^'xBx alloys. Scripta Materialia, 2010, 63, 569-572.	2.6	38
66	Signatures for half-metallicity and nontrivial surface states in the kagome lattice Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 99, .	1.1	38
67	Magnetic-field-induced martensitic transformation in MnNiAl:Co alloys. Applied Physics Letters, 2012, 100, .	1.5	37
68	First-principles study on electronic structure, magnetism and half-metallicity of the NbCoCrAl and NbRhCrAl compounds. Results in Physics, 2017, 7, 2248-2254.	2.0	37
69	Precise Regulation of Carrier Concentration in Thermoelectric BiSbTe Alloys via Magnetic Doping. ACS Applied Materials & Interfaces, 2020, 12, 20653-20663.	4.0	37
70	Magnetocaloric effect and negative thermal expansion in hexagonal Fe doped MnNiGe compounds with a magnetoelastic AFM-FM-like transition. Scientific Reports, 2017, 7, 41675.	1.6	35
71	Spin excitations and spin wave gap in the ferromagnetic Weyl semimetal Co3Sn2S2. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	35
72	Compensation effect and magnetostriction in CoCr_{2â^'x}Fe_xO₄. Physica Status Solidi (B): Basic Research, 2013, 250, 1287-1292.	0.7	34

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73	Transition from semiconducting to metallic-like conducting and weak antilocalization effect in single crystals of LuPtSb. Applied Physics Letters, 2015, 106, 102102.	1.5	34
74	Spin glass behavior in the disordered half-Heusler compound IrMnGa. Physical Review B, 2019, 99, .	1.1	34
75	Giant anisotropic magnetocaloric effect by coherent orientation of crystallographic texture and rare-earth ion moments in HoNiSi ploycrystal. Acta Materialia, 2020, 193, 210-220.	3.8	34
76	An efficient scheme to tailor the magnetostructural transitions by staged quenching and cyclical ageing in hexagonal martensitic alloys. Acta Materialia, 2019, 174, 289-299.	3.8	33
77	Influence of tetragonal distortion on the topological electronic structure of the half-Heusler compound LaPtBi from first principles. Applied Physics Letters, 2011, 99, .	1.5	31
78	Half-metallicity and anisotropy magnetoresistance properties of Heusler alloys Fe2Co1â^'xCrxSi. Journal of Magnetism and Magnetic Materials, 2013, 335, 101-104.	1.0	31
79	Towards fully compensated ferrimagnetic spin gapless semiconductors for spintronic applications. Europhysics Letters, 2015, 111, 37009.	0.7	31
80	On the anisotropies of magnetization and electronic transport of magnetic Weyl semimetal Co3Sn2S2. Applied Physics Letters, 2019, 115, 212403.	1.5	31
81	Ferromagnetic structures in Mn2CoGa and Mn2CoAl doped by Co, Cu, V, and Ti. Journal of Applied Physics, 2013, 113, .	1.1	30
82	K₃Li₃Gd₇(BO₃)₉: A New Gadoliniumâ€Rich Orthoborate for Cryogenic Magnetic Cooling. Chemistry - A European Journal, 2018, 24, 3147-3150.	1.7	30
83	Bipyridine conformations control the solid-state supramolecular chemistry of zinc(ii) phthalocyanine with bipyridines. CrystEngComm, 2005, 7, 243.	1.3	29
84	Competition of XA and L21B ordering in Heusler alloys Mn2CoZ (ZÂ=ÂAl, Ga, Si, Ge and Sb) and its influence on electronic structure. Intermetallics, 2017, 80, 10-15.	1.8	29
85	Electronic behaviors during martensitic transformations in all-d-metal Heusler alloys. Journal of Physics Condensed Matter, 2019, 31, 425401.	0.7	29
86	Nonsaturating magnetoresistance, anomalous Hall effect, and magnetic quantum oscillations in the ferromagnetic semimetal PrAlSi. Physical Review B, 2020, 102, .	1.1	29
87	Dirac Nodal Arc Semimetal PtSn₄: An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. Angewandte Chemie, 2019, 131, 13241-13246.	1.6	28
88	Origin of the Zâ^'28 rule in Mn2Cu-based Heusler alloys: A comparing study. Journal of Magnetism and Magnetic Materials, 2012, 324, 2127-2130.	1.0	27
89	Large anisotropic thermal transport properties observed in bulk single crystal black phosphorus. Applied Physics Letters, 2016, 108, .	1.5	27
90	Field-Modulated Anomalous Hall Conductivity and Planar Hall Effect in Co₃Sn₂S₂ Nanoflakes. Nano Letters, 2020, 20, 7860-7867.	4.5	27

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91	Unusual lattice constant changes and tunable magnetic moment compensation in Mn50â^'xCo25Ga25+x alloys. Applied Physics Letters, 2012, 101, .	1.5	26
92	Large and Anisotropic Linear Magnetoresistance in Single Crystals of Black Phosphorus Arising From Mobility Fluctuations. Scientific Reports, 2016, 6, 23807.	1.6	26
93	A coupling of martensitic and metamagnetic transitions with collective magneto-volume and table-like magnetocaloric effects. Applied Physics Letters, 2014, 105, .	1.5	25
94	Structural transitions, magnetic properties, and electronic structures of Co(Fe)-doped MnNiSi compounds. Journal of Applied Physics, 2015, 117, .	1.1	25
95	Tuning antiferromagnetic exchange interaction for spontaneous exchange bias in MnNiSnSi system. APL Materials, 2017, 5, .	2.2	25
96	Significant disorder-induced enhancement of the magnetization of Fe2CrGa by ball milling. Journal of Applied Physics, 2013, 114, 013903.	1.1	24
97	Role ofd-dandp-dhybridization in CoTi-based magnetic semiconductors with 21 and 26 valence electrons. Journal Physics D: Applied Physics, 2015, 48, 325001.	1.3	23
98	Large anisotropic topological Hall effect in a hexagonal non-collinear magnet Fe5Sn3. Applied Physics Letters, 2020, 116, .	1.5	23
99	Epitaxial Growth and Transport Properties of Magnetic Weyl Semimetal Co₃Sn₂S₂ Thin Films. ACS Applied Electronic Materials, 2020, 2, 126-133.	2.0	22
100	Detecting SARS-CoV-2 in the Breath of COVID-19 Patients. Frontiers in Medicine, 2021, 8, 604392.	1.2	22
101	Martensitic transformation in Heusler alloy Mn2PtIn: Theoretical and experimental investigation. Solid State Communications, 2013, 170, 44-47.	0.9	21
102	Structure, magnetism, and magnetic compensation behavior of Co50-xMn25Ga25+x and Co50-xMn25+xGa25 Heusler alloys. Journal of Applied Physics, 2013, 113, .	1.1	21
103	Large topological Hall effect in nonchiral hexagonal MnNiGa films. Applied Physics Letters, 2017, 110, .	1.5	21
104	Role of covalent hybridization in the martensitic structure and magnetic properties of shape-memory alloys: The case of Ni50Mn5+xGa35-xCu10. Applied Physics Letters, 2013, 102, .	1.5	20
105	Orthoborates LiCdRE₅(BO₃)₆ (RE = Smâ€"Lu and Y) with Rare-Earth Ions on a Triangular Lattice: Synthesis, Crystal Structure, and Optical and Magnetic Properties. Inorganic Chemistry, 2017, 56, 8100-8105.	1.9	20
106	Magnetic semiconductors based on quaternary Heusler compounds. Computational Materials Science, 2018, 150, 321-324.	1.4	20
107	Growth, thermophysical and electrical properties of the nonlinear optical crystal BPO₄. Crystal Research and Technology, 2012, 47, 391-396.	0.6	19
108	Site preference and electronic structure of Mn2RuSn: A theoretical study. Journal of Magnetism and Magnetic Materials, 2014, 365, 132-137.	1.0	19

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109	Tunable magnetic and transport properties of Mn3Ga thin films on Ta/Ru seed layer. Journal of Applied Physics, 2018, 123, .	1.1	19
110	Electronic structure and magnetism of binary Fe-based half-Heusler alloys Fe2Z (Z=In, Sn, Sb and As). Journal of Magnetism and Magnetic Materials, 2013, 331, 82-87.	1.0	18
111	Phase stability, magnetism and generalized electron-filling rule of vanadium-based inverse Heusler compounds. Europhysics Letters, 2013, 104, 27012.	0.7	18
112	Structural and magnetic properties of MnCo 1â^'x Fe x Si alloys. Journal of Magnetism and Magnetic Materials, 2015, 387, 159-164.	1.0	18
113	Windows open for highly tunable magnetostructural phase transitions. APL Materials, 2016, 4, .	2.2	18
114	Large anomalous Hall effect in a hexagonal ferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>5</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> single	1.1	18
115	Investigation of the site preference in Mn2RuSn using KKR-CPA-LDA calculation. Journal of Magnetism and Magnetic Materials, 2015, 382, 247-251.	1.0	17
116	Magnetic properties of Heusler alloy Mn2RuGe and Mn2RuGa ribbons. Journal of Magnetism and Magnetic Materials, 2015, 379, 1-5.	1.0	17
117	Site preference, electronic structure and possible martensitic transformation in Heusler alloys Ni 2 CoZ (ZÂ=ÂAl, Ga, In, Si, Ge, Sn, Sb). Intermetallics, 2017, 81, 1-8.	1.8	17
118	Ferromagnetic martensitic transformation and large magnetocaloric effect in Ni35Co15â^'xFexMn35Ti15 (xâ€‰=â€‰2, 4, 6, 8) alloys. Journal of Applied Physics, 2020, 127, .	1.1	17
119	Robust anomalous Hall effect and temperature-driven Lifshitz transition in Weyl semimetal Mn₃Ge. Nanoscale, 2021, 13, 2601-2608.	2.8	17
120	Ferromagnetic exchange interaction between Co and Mn in the Heusler alloy CuCoMnAl. Journal of Applied Physics, 2010, 107, .	1.1	16
121	Thermal and stress-induced martensitic transformations in quaternary Ni50Mn37(In, Sb)13 ferromagnetic shape memory alloys. Intermetallics, 2010, 18, 1690-1694.	1.8	16
122	Prediction of topological insulating behavior in inverse Heusler compounds from first principles. Computational Materials Science, 2013, 70, 145-149.	1.4	16
123	NMR investigation of atomic and electronic structures of half-Heusler topologically nontrivial semimetals. Physica Status Solidi (B): Basic Research, 2015, 252, 357-360.	0.7	16
124	Atomic configuration, unusual lattice constant change, and tunable ferromagnetism in all-d-metal Heusler alloys Fe2CrV-FeCr2V. Journal of Magnetism and Magnetic Materials, 2019, 492, 165661.	1.0	16
125	Tunable positive magnetoresistance and crossover from weak antilocalization to weak localization transition in half-Heusler compounds RPtBi (Râ€‰=â€‰lanthanide). Applied Physics Letters, 2020, 116, 101902.	1.5	16
126	Direct observation of the spinâ€“orbit coupling effect in magnetic Weyl semimetal Co3Sn2S2. Npj Quantum Materials, 2022, 7, .	1.8	16

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127	Electronic structure, magnetism and phase stability of isostructural Ga2MnCoâ€“Ga2MnV Heusler alloys from first principles. Computational Materials Science, 2014, 89, 130-136.	1.4	15
128	New spin injection scheme based on spin gapless semiconductors: A first-principles study. Europhysics Letters, 2015, 111, 68003.	0.7	15
129	High damping capacity of a Ni-Cu-Mn-Ga alloy in wide ambient-temperature range. Journal of Alloys and Compounds, 2017, 695, 2400-2405.	2.8	15
130	Large anomalous Hall angle in a topological semimetal candidate TbPtBi. Applied Physics Letters, 2021, 118, .	1.5	15
131	Effect of low-valent atom substitution on electronic structure and magnetic properties of Fe1.5M0.5CoSi (M=V, Cr, Mn, Fe) Heusler alloys. Journal of Magnetism and Magnetic Materials, 2011, 323, 2323-2327.	1.0	14
132	Site preference and compensation behavior in Co(Cr, Mn)2O4 system. Journal of Applied Physics, 2015, 117, .	1.1	14
133	Anisotropic magnetoelastic response in the magnetic Weyl semimetal Co3Sn2S2. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	14
134	Fabrication and characterization of the gapless half-Heusler YPtSb thin films. Journal of Applied Physics, 2012, 112, 103910.	1.1	13
135	First-principle investigation of electronic structure, magnetism and phase stability of Heusler-type Pt2â^'Mn1+Ga alloys. Journal of Magnetism and Magnetic Materials, 2015, 377, 40-43.	1.0	13
136	Atomic-Level Characterization of Dynamics of Copper Ions in CuAgSe. Journal of Physical Chemistry C, 2016, 120, 3229-3234.	1.5	13
137	Manipulating Spin Chirality of Magnetic Skyrmion Bubbles by In-Plane Reversed Magnetic Fields in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mi>Mn</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Co</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi>Ge</mml:mi><mml:mi>y</mml:mi></mml:msub><mml:msub><mml:mi>Sb</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>y</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi>Te</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review Applied, 2019, 12, .	1.5	13
138	Experimentally determining the intrinsic center point of Bi2O3â€“Fe2O3 phase diagram for growing pure BiFeO3 crystals. CrystEngComm, 2013, 15, 4900.	1.3	12
139	Atomic ordering and magnetic properties of quaternary Heusler alloys NiCuMnZ (Z=In, Sn, Sb). Intermetallics, 2017, 86, 121-125.	1.8	12
140	Observation of weak antilocalization effect in high-quality ScNiBi single crystal. Journal of Applied Physics, 2017, 121, .	1.1	12
141	Half-metallicity of the bulk and (001) surface of NbFeCrAl and NbFeVGe Heusler compounds: a first-principles prediction. RSC Advances, 2017, 7, 31707-31713.	1.7	12
142	The electronic and magnetic properties and topological Hall effect in hexagonal MnNiGa alloy films by varying Mn contents. Journal of Alloys and Compounds, 2017, 725, 1324-1329.	2.8	12
143	Crystal-orientation dependence of magnetic domain structures in the skyrmion-hosting magnets MnNiGa. APL Materials, 2018, 6, 076101.	2.2	12
144	Chiral-anomaly induced large negative magnetoresistance and nontrivial Ï€-Berry phase in half-Heusler compounds RPtBi (R=Tb, Ho, and Er). Applied Physics Letters, 2020, 116, .	1.5	12

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145	Tunable e g Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. Angewandte Chemie, 2021, 133, 5864-5869.	1.6	12
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