

# Enke Liu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Isomorphic heteromagnetism of an Fe <sub>2</sub> MnGa alloy in a face-centered cubic structure. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 276, 115529.	1.7	2
2	Direct observation of the spin-orbit coupling effect in magnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	16
3	Pressure-Driven Magneto-Topological Phase Transition in a Magnetic Weyl Semimetal. <i>Advanced Quantum Technologies</i> , 2022, 5, .	1.8	7
4	Fe <sub>2</sub> Zr <sub>2</sub> Al <sub>2</sub> Ge <sub>2</sub> Sn <sub>2</sub> - TM <sub>2</sub> AlGe <sub>2</sub> Sn <sub>2</sub> - TM <sub>2</sub> AlGe <sub>2</sub> Sn <sub>2</sub> . <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2022, , .		
5	An Open Digitization Tool for Extracting Scientific Curve Data in Portable Documents. <i>Advances in Transdisciplinary Engineering</i> , 2022, , .	0.1	0
6	Quasi-two-dimensional topological Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> composite toward high rate sodium ion storage. <i>Chemical Engineering Journal</i> , 2022, 443, 136420.	6.6	4
7	Dimensional crossover in self-intercalated antiferromagnetic $\sqrt{5} \times \sqrt{8}$ van der Waals nanoflakes. <i>Physical Review B</i> , 2022, 105, .	1.1	6
8	Tunable e g Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. <i>Angewandte Chemie</i> , 2021, 133, 5864-5869.	1.6	12
9	Tunable e g Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5800-5805.	7.2	45
10	Spin excitations and spin wave gap in the ferromagnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	35
11	Metallic Magnetic Materials. , 2021, , 1-116.		1
12	Anisotropic magnetoelastic response in the magnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	14
13	Detecting SARS-CoV-2 in the Breath of COVID-19 Patients. <i>Frontiers in Medicine</i> , 2021, 8, 604392.	1.2	22
14	Design of Mn-Mn distance for tunable spontaneous exchange bias in Heusler alloys. <i>Intermetallics</i> , 2021, 132, 107170.	1.8	7
15	Martensitic transformation behaviors of all-metal Heusler Mn <sub>50</sub> Ni <sub>50</sub> alloys. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2021, 51, 067512.		
16	Evidence for one-dimensional chiral edge states in a magnetic Weyl semimetal Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Nature Communications</i> , 2021, 12, 4269.	5.8	40
17	On the anomalous low-resistance state and exceptional Hall component in hard-magnetic Weyl nanoflakes. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	11
18	Density functional theory investigation on lattice dynamics, elastic properties and origin of vanished magnetism in Heusler compounds CoMnVZ (Z = Al, Ga)*. <i>Chinese Physics B</i> , 2021, 30, 083103.	0.7	8

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19	Modulation of Weyl semimetal state in half-Heusler GdPtBi enabled by hydrostatic pressure. <i>New Journal of Physics</i> , 2021, 23, 083041.	1.2	1
20	Large anomalous Hall angle in a topological semimetal candidate TbPtBi. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	15
21	Robust anomalous Hall effect and temperature-driven Lifshitz transition in Weyl semimetal $Mn_3Ge$ . <i>Nanoscale</i> , 2021, 13, 2601-2608.	2.8	17
22	Evolution of diverse Hall effects during the successive magnetic phase transitions in $Mn_2.5Fe_0.6Sn_{0.9}$ Kagome-lattice alloy. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 115803.	0.7	2
23	Magnetic-field-induced transformation and strain in polycrystalline FeMnGa ferromagnetic shape memory alloys with high cold-workability. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	4
24	Artificial intelligence: A powerful paradigm for scientific research. <i>Innovation(China)</i> , 2021, 2, 100179.	5.2	200
25	Metallic Magnetic Materials. , 2021, , 693-808.		0
26	Topological phase transition in a magnetic Weyl semimetal. <i>Physical Review B</i> , 2021, 104, .	1.1	7
27	Epitaxial Growth and Transport Properties of Magnetic Weyl Semimetal $Co_3Sn_2S_2$ Thin Films. <i>ACS Applied Electronic Materials</i> , 2020, 2, 126-133.	2.0	22
28	Thermodynamics and Kinetics Synergy for Controlled Synthesis of 2D van der Waals Single-Crystal $NbSe_2$ via Modified Chemical Vapor Transport. <i>Crystal Growth and Design</i> , 2020, 20, 706-712.	1.4	5
29	Observation of Magnetic Skyrmion Bubbles in a van der Waals Ferromagnet $Fe_3Ge_2$ . <i>Nano Letters</i> , 2020, 20, 868-873.	4.5	198
30	Current-Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. <i>Advanced Materials</i> , 2020, 32, e1904815.	11.1	47
31	Field-Modulated Anomalous Hall Conductivity and Planar Hall Effect in $Co_3Sn_2S_2$ Nanoflakes. <i>Nano Letters</i> , 2020, 20, 7860-7867.	4.5	27
32	Electronic correlations and flattened band in magnetic Weyl semimetal candidate $Co_3Sn_2S_2$ . <i>Nature Communications</i> , 2020, 11, 3985.	5.8	51
33	Large Barocaloric Effect with High Pressure-Driving Efficiency in a Hexagonal $MnNi_{0.77}Fe_{0.23}Ge$ Alloy. <i>Chinese Physics Letters</i> , 2020, 37, 076101.	1.3	3
34	Local Disorder-Induced Elevation of Intrinsic Anomalous Hall Conductance in an Electron-Doped Magnetic Weyl Semimetal. <i>Physical Review Letters</i> , 2020, 125, 086602.	2.9	45
35	Nonsaturating magnetoresistance, anomalous Hall effect, and magnetic quantum oscillations in the ferromagnetic semimetal PrAlSi. <i>Physical Review B</i> , 2020, 102, .	1.1	29
36	Localized spin-orbit polaron in magnetic Weyl semimetal $Co_3Sn_2S_2$ . <i>Nature Communications</i> , 2020, 11, 5613.	5.8	53

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37	Enhancement of ferromagnetism in carbon doped Fe <sub>2</sub> MnGa. Intermetallics, 2020, 127, 106971.	1.8	3
38	Large anisotropic topological Hall effect in a hexagonal non-collinear magnet Fe <sub>5</sub> Sn <sub>3</sub> . Applied Physics Letters, 2020, 116, .	1.5	23
39	Low-pressure-induced giant barocaloric effect in an all-d-metal Heusler Ni <sub>35.5</sub> Co <sub>14.5</sub> Mn <sub>35</sub> Ti <sub>15</sub> magnetic shape memory alloy. APL Materials, 2020, 8, .	2.2	40
40	Electronic structures, magnetic properties, and martensitic transformation in all-d-metal Heusler-like alloys Cd <sub>2</sub> MnTM (TM = Fe, Ni, Cu). Chinese Physics B, 2020, 29, 087101.	0.7	5
41	Chiral-anomaly induced large negative magnetoresistance and nontrivial $\pi$ -Berry phase in half-Heusler compounds RPtBi (R=Tb, Ho, and Er). Applied Physics Letters, 2020, 116, .	1.5	12
42	Giant anisotropic magnetocaloric effect by coherent orientation of crystallographic texture and rare-earth ion moments in HoNiSi polycrystal. Acta Materialia, 2020, 193, 210-220.	3.8	34
43	Ferromagnetic martensitic transformation and large magnetocaloric effect in Ni <sub>35</sub> Co <sub>15</sub> Fe <sub>x</sub> Mn <sub>35</sub> Ti <sub>15</sub> (x=2, 4, 6, 8) alloys. Journal of Applied Physics, 2020, 127, .	1.1	17
44	Emerging chiral edge states from the confinement of a magnetic Weyl semimetal in $\text{Co}_3\text{Mn}_2\text{S}_2$ . Physical Review B, 2020, 101, .	1.1	48
45	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in MnNiGa magnets. Applied Physics Letters, 2020, 116, .	1.5	8
46	Lock-in frequency measurement with high precision and efficiency. Review of Scientific Instruments, 2020, 91, 075106.	0.6	3
47	33% Giant Anomalous Hall Current Driven by Both Intrinsic and Extrinsic Contributions in Magnetic Weyl Semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . Advanced Functional Materials, 2020, 30, 2000830.	7.8	44
48	Large elastocaloric effect in directionally solidified all-d-metal Heusler metamagnetic shape memory alloys. Acta Materialia, 2020, 188, 677-685.	3.8	85
49	Large anomalous Hall effect in a hexagonal ferromagnetic $\text{F}_5\text{e}_{10}\text{S}_3$ . Applied Physics Letters, 2020, 116, 101902.	1.1	18
50	Precise Regulation of Carrier Concentration in Thermoelectric BiSbTe Alloys via Magnetic Doping. ACS Applied Materials & Interfaces, 2020, 12, 20653-20663.	4.0	37
51	Tunable positive magnetoresistance and crossover from weak antilocalization to weak localization transition in half-Heusler compounds RPtBi (R=lanthanide). Applied Physics Letters, 2020, 116, 101902.	1.5	16
52	The Innovation: A Journal to See the Unseen and Change the Unchanged. Innovation(China), 2020, 1, 100014.	5.2	1
53	Electric field gradients in $2\text{H}\text{NbSe}_2$ : $^{93}\text{Nb}$ NMR measurements and first-principles calculations. Journal of Physics Condensed Matter, 2020, 33, 045404.	0.7	1
54	Atomic configuration, unusual lattice constant change, and tunable ferromagnetism in all-d-metal Heusler alloys Fe <sub>2</sub> CrV-FeCr <sub>2</sub> V. Journal of Magnetism and Magnetic Materials, 2019, 492, 165661.	1.0	16

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55	Surface states in bulk single crystal of topological semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ toward water oxidation. <i>Science Advances</i> , 2019, 5, eaaw9867.	4.7	118
56	Dirac Nodal Arc Semimetal $\text{PtSn}_4$ : An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13107-13112.	7.2	59
57	Dirac Nodal Arc Semimetal $\text{PtSn}_4$ : An Ideal Platform for Understanding Surface Properties and Catalysis for Hydrogen Evolution. <i>Angewandte Chemie</i> , 2019, 131, 13241-13246.	1.6	28
58	Signatures for half-metallicity and nontrivial surface states in the kagome lattice Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . <i>Physical Review B</i> , 2019, 99, .	1.3	38
59	Angular dependence of the topological Hall effect in the uniaxial van der Waals ferromagnet $\text{Fe}_3\text{Sn}_2$ . <i>Physical Review B</i> , 2019, 100, .	1.1	52
60	Fermi-arc diversity on surface terminations of the magnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . <i>Science</i> , 2019, 365, 1286-1291.	6.0	441
61	Magnetic Weyl semimetal phase in a Kagomé crystal. <i>Science</i> , 2019, 365, 1282-1285.	6.0	518
62	Magnetization variation in $\text{Fe-Cr-Ga}$ system. <i>Intermetallics</i> , 2019, 113, 106580.	1.8	3
63	Is Heusler alloy $\text{Ti}_2\text{NiAl}$ a half-metal. <i>Solid State Communications</i> , 2019, 292, 7-10.	0.9	3
64	An efficient scheme to tailor the magnetostructural transitions by staged quenching and cyclical ageing in hexagonal martensitic alloys. <i>Acta Materialia</i> , 2019, 174, 289-299.	3.8	33
65	Electronic behaviors during martensitic transformations in all-d-metal Heusler alloys. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 425401.	0.7	29
66	Dynamic Magnetic-Transformation-Induced Exchange Bias in $[\text{Fe}_2\text{O}_3]_{0.1}[\text{FeTiO}_3]_{0.9}$ . <i>Physical Review Applied</i> , 2019, 11, .	1.5	4
67	Spin glass behavior in the disordered half-Heusler compound $\text{IrMnGa}$ . <i>Physical Review B</i> , 2019, 99, .	1.1	34
68	Large topological Hall effect in a geometrically frustrated kagome magnet $\text{Fe}_3\text{Sn}_2$ . <i>Applied Physics Letters</i> , 2019, 114, .	1.5	68
69	Synergistically creating sulfur vacancies in semimetal-supported amorphous $\text{MoS}_2$ for efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 1-6.	10.8	69
70	Zero-Field Nernst Effect in a Ferromagnetic Kagome Lattice Weyl Semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . <i>Advanced Materials</i> , 2019, 31, e1806622.	11.1	180
71	Elastocaloric effect of all-d-metal Heusler $\text{NiMnTi}(\text{Co})$ magnetic shape memory alloys by digital image correlation and infrared thermography. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	62
72	On the anisotropies of magnetization and electronic transport of magnetic Weyl semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ . <i>Applied Physics Letters</i> , 2019, 115, 212403.	1.5	31

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73	Interface-driven unusual anomalous Hall effect in $Mn_2CrGa$ . <i>Physical Review Applied</i> , 2019, 12, .	1.1	9
74	Manipulating Spin Chirality of Magnetic Skyrmion Bubbles by In-Plane Reversed Magnetic Fields in $Mn_2CrGa$ . <i>Physical Review Applied</i> , 2019, 12, .	1.5	13
75	A theoretical and experimental investigation on the structure and magnetic properties of $Mn_2CrGa$ . <i>Intermetallics</i> , 2019, 106, 71-76.	1.8	1
76	Manipulating the Topology of Nanoscale Skyrmion Bubbles by Spatially Geometric Confinement. <i>ACS Nano</i> , 2019, 13, 922-929.	7.3	43
77	Structural and magnetotransport properties of topological trivial $LuNiBi$ single crystals. <i>Journal of Alloys and Compounds</i> , 2019, 784, 822-826.	2.8	7
78	Topologically enhanced zero-field transverse Nernstthermoelectric effect in magnetic topological semimetals. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2019, 49, 127001.	0.2	3
79	Outstanding Comprehensive Performance of $La(Fe, Si)_{13}H_y$ /In Composite with Durable Service Life for Magnetic Refrigeration. <i>Advanced Electronic Materials</i> , 2018, 4, 1700636.	2.6	61
80	Electronic Structures, Magnetic Properties and Half-Metallicity of Heusler Compounds $Hf_2VZ$ ( $Z = Ga, Tj$ ). <i>Journal of Magnetism</i> , 2018, 31, 3063-3074.	0.8	3
81	Weak antilocalization effect in exfoliated black phosphorus revealed by temperature- and angle-dependent magnetoconductivity. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 085703.	0.7	5
82	$K_3Li_3Gd_7(BO_3)_9$ : A New Gadolinium-Rich Orthoborate for Cryogenic Magnetic Cooling. <i>Chemistry - A European Journal</i> , 2018, 24, 3147-3150.	1.7	30
83	Creation of Single Chain of Nanoscale Skyrmion Bubbles with Record-High Temperature Stability in a Geometrically Confined Nanostripe. <i>Nano Letters</i> , 2018, 18, 1274-1279.	4.5	62
84	Magnetic semiconductors based on quaternary Heusler compounds. <i>Computational Materials Science</i> , 2018, 150, 321-324.	1.4	20
85	Tunable magnetic and transport properties of $Mn_3Ga$ thin films on Ta/Ru seed layer. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	19
86	Cluster spin glass state caused by antiphase boundaries in $NiFeGa$ alloys. <i>Journal of Alloys and Compounds</i> , 2018, 749, 134-139.	2.8	9
87	Tuning the magnetostructural transformation by wheel speed in $Mn-Fe-Ni-Ge-Si$ alloy ribbons. <i>Journal of Alloys and Compounds</i> , 2018, 746, 503-508.	2.8	7
88	Giant topological Hall effect in tetragonal Heusler alloy $Mn_2PtSn$ . <i>Scripta Materialia</i> , 2018, 143, 122-125.	2.6	43
89	Dynamic signature of orbital selective Mott transition in the metallic phase of $VO_2$ . <i>New Journal of Physics</i> , 2018, 20, 073026.	1.2	8
90	Design of anti-site disorder for tunable spontaneous exchange bias: $Mn-Ni-Al$ alloys as a case. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	11

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91	Vacancy mediated ionic mobility in a phonon glass material CuAgSe. Solid State Ionics, 2018, 326, 183-187.	1.3	6
92	Carbon-tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. Advanced Energy Materials, 2018, 8, 1801258.	10.2	111
93	Topological surface Fermi arcs in the magnetic Weyl semimetal $\text{Co}_3\text{S}_2$ . Physical Review B, 2018, 97, .	1.1	159
94	Giant anomalous Hall effect in a ferromagnetic kagome-lattice semimetal. Nature Physics, 2018, 14, 1125-1131.	6.5	876
95	Crystal-orientation dependence of magnetic domain structures in the skyrmion-hosting magnets MnNiGa. APL Materials, 2018, 6, 076101.	2.2	12
96	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
97	Copper dynamics and structural-transformation in noble metal chalcogenides CuAgS probed by $^{63}\text{Cu}$ NMR. Solid State Ionics, 2017, 300, 182-186.	1.3	2
98	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
99	Insight into the important role of antisite disorder in the magnetic properties of Mn <sub>2</sub> CuAl. Intermetallics, 2017, 85, 98-102.	1.8	0
100	Angle-dependent magnetoresistance and quantum oscillations in high-mobility semimetal LuPtBi. Journal of Physics Condensed Matter, 2017, 29, 195501.	0.7	8
101	Large topological Hall effect in nonchiral hexagonal MnNiGa films. Applied Physics Letters, 2017, 110, .	1.5	21
102	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
103	Transition from Anomalous Hall Effect to Topological Hall Effect in Hexagonal Non-Collinear Magnet Mn <sub>3</sub> Ga. Scientific Reports, 2017, 7, 515.	1.6	70
104	Atomic ordering and magnetic properties of quaternary Heusler alloys NiCuMnZ (Z=In, Sn, Sb). Intermetallics, 2017, 86, 121-125.	1.8	12
105	Large exchange bias effect in the super spin glass state of Mn <sub>50</sub> Ni <sub>38</sub> Al <sub>12</sub> alloy. Intermetallics, 2017, 86, 116-120.	1.8	10
106	Structure and magnetic properties of Heusler alloy Co <sub>2</sub> RuSi melt-spun ribbons. Journal of Magnetism and Magnetic Materials, 2017, 435, 76-80.	1.0	11
107	Site preference, electronic structure and possible martensitic transformation in Heusler alloys Ni <sub>2</sub> CoZ (Z=Al, Ga, In, Si, Ge, Sn, Sb). Intermetallics, 2017, 81, 1-8.	1.8	17
108	Observation of weak antilocalization effect in high-quality ScNiBi single crystal. Journal of Applied Physics, 2017, 121, .	1.1	12

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109	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
110	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
111	Tuning the metamagnetism in a metallic helical antiferromagnet. Applied Physics Letters, 2017, 111, 232404.	1.5	4
112	Symmetric Amphiphilic Molecules with Hydroxyl- $\pi$ -Cinnamic-Acid Dimer Cores: Photoalterable Aggregation and Thermal Sensitivity. Journal of Surfactants and Detergents, 2017, 20, 1105-1113.	1.0	3
113	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
114	Orthoborates $\text{LiCdRE}_5(\text{BO}_3)_6$ ( $\text{RE} = \text{Sm}^{\text{II}}$ -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
115	Multiple magnetic transitions in $\text{MnCo}_{1-x}\text{Cu}_x\text{Ge}$ driven by changes in atom separation and exchange interaction. Materials and Design, 2017, 114, 531-536.	3.3	63
116	Competition of XA and L21B ordering in Heusler alloys $\text{Mn}_2\text{CoZ}$ ( $\text{Z} = \text{Al, Ga, Si, Ge}$ and Sb) and its influence on electronic structure. Intermetallics, 2017, 80, 10-15.	1.8	29
117	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
118	Tuning antiferromagnetic exchange interaction for spontaneous exchange bias in MnNiSnSi system. APL Materials, 2017, 5, .	2.2	25
119	Large anisotropic thermal transport properties observed in bulk single crystal black phosphorus. Applied Physics Letters, 2016, 108, .	1.5	27
120	Windows open for highly tunable magnetostructural phase transitions. APL Materials, 2016, 4, .	2.2	18
121	Magnetostructural martensitic transformations with large volume changes and magneto-strains in all-d-metal Heusler alloys. Applied Physics Letters, 2016, 109, .	1.5	84
122	Competition of L21 and XA structural ordering in Heusler alloys $\text{X}_2\text{CuAl}$ ( $\text{X} = \text{Sc, Ti, V, Cr, Mn, Fe, Co, Ni}$ ). Journal of Alloys and Compounds, 2016, 665, 180-185.	2.8	49
123	Possible martensitic transformation in Heusler alloy $\text{Mn}_2\text{PdSn}$ from first principles. Journal of Magnetism and Magnetic Materials, 2016, 419, 543-546.	1.0	3
124	Large and Anisotropic Linear Magnetoresistance in Single Crystals of Black Phosphorus Arising From Mobility Fluctuations. Scientific Reports, 2016, 6, 23807.	1.6	26
125	NMR Evidence for the Topologically Nontrivial Nature in a Family of Half-Heusler Compounds. Scientific Reports, 2016, 6, 23172.	1.6	41
126	Degradation of black phosphorus: a real-time $^{31}\text{P}$ NMR study. 2D Materials, 2016, 3, 035025.	2.0	53



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127	FCC Fe <sub>2</sub> NiSi prepared by mechanical alloying and stabilization effect of L21B disorder on BCC Heusler structure. Journal of Magnetism and Magnetic Materials, 2016, 419, 485-489.	1.0	10
128	A method of measuring dynamic strain under electromagnetic forming conditions. Review of Scientific Instruments, 2016, 87, 043902.	0.6	3
129	Wide temperature window of magnetostructural transition achieved in Mn <sub>0.4</sub> Fe <sub>0.6</sub> NiSi <sub>1-x</sub> Gax by a two-step isostructural alloying process. AIP Advances, 2016, 6, 056220.	0.6	10
130	A Centrosymmetric Hexagonal Magnet with Superstable Biskyrmion Magnetic Nanodomains in a Wide Temperature Range of 100~340 K. Advanced Materials, 2016, 28, 6887-6893.	11.1	209
131	Study of electronic structure and magnetic properties of epitaxial Co <sub>2</sub> FeAl Heusler Alloy Thin Films. Journal of Alloys and Compounds, 2016, 674, 295-299.	2.8	10
132	Atomic-Level Characterization of Dynamics of Copper Ions in CuAgSe. Journal of Physical Chemistry C, 2016, 120, 3229-3234.	1.5	13
133	A wide temperature window for the magnetostructural transformation in Mn <sub>50</sub> Ni <sub>50</sub> -Sn Co alloys. Intermetallics, 2016, 70, 68-71.	1.8	7
134	Microstructures and phase transformations in as-aged Mn <sub>2.04</sub> NiGa Heusler alloy. Journal of Alloys and Compounds, 2016, 657, 443-449.	2.8	5
135	High electron mobility and large magnetoresistance in the half-Heusler semimetal LuPtBi. Physical Review B, 2015, 92, .	1.1	51
136	Large low-field positive magnetoresistance in nonmagnetic half-Heusler ScPtBi single crystal. Applied Physics Letters, 2015, 107, .	1.5	50
137	Unprecedentedly Wide Curie~Temperature Windows as Phase~Transition Design Platform for Tunable Magneto~Multifunctional Materials. Advanced Electronic Materials, 2015, 1, 1500076.	2.6	75
138	First-order magnetic and magnetostructural transitions in the magnetocaloric compound MnNi <sub>0.73</sub> Fe <sub>0.27</sub> Ge. Physica B: Condensed Matter, 2015, 474, 27-30.	1.3	4
139	Disorder-Induced Enhancement of Magnetic Properties in Ball-Milled Fe <sub>2</sub> CrAl Alloy. IEEE Transactions on Magnetics, 2015, 51, 1-4.	1.2	3
140	Towards fully compensated ferrimagnetic spin gapless semiconductors for spintronic applications. Europhysics Letters, 2015, 111, 37009.	0.7	31
141	New spin injection scheme based on spin gapless semiconductors: A first-principles study. Europhysics Letters, 2015, 111, 68003.	0.7	15
142	Antisite-induced half-metallicity and fully-compensated ferrimagnetism in Co~Mn~V~Al alloy. Materials Research Express, 2015, 2, 106101.	0.8	7
143	Investigation of the site preference in Mn <sub>2</sub> RuSn using KKR-CPA-LDA calculation. Journal of Magnetism and Magnetic Materials, 2015, 382, 247-251.	1.0	17
144	The structural and magnetic properties of Fe <sub>2-x</sub> NiGa <sub>1+x</sub> Heusler alloys. Physica B: Condensed Matter, 2015, 462, 93-96.	1.3	6

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145	On the influence of tetrahedral covalent-hybridization on electronic band structure of topological insulators from first principles. <i>Journal of Applied Physics</i> , 2015, 117, 045706.	1.1	3
146	Martensitic transformation in Heusler alloys Mn <sub>2</sub> YIn (Y=Ni, Pd and Pt): Theoretical and experimental investigation. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 395, 190-195.	1.0	11
147	Giant rotating magnetocaloric effect induced by highly texturing in polycrystalline DyNiSi compound. <i>Scientific Reports</i> , 2015, 5, 11929.	1.6	72
148	Role of <i>d-d</i> and <i>p-d</i> hybridization in CoTi-based magnetic semiconductors with 21 and 26 valence electrons. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 325001.	1.3	23
149	Structural and magnetic properties of MnCo <sub>1-x</sub> Fe <sub>x</sub> Si alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 387, 159-164.	1.0	18
150	Atomic disorder in Heusler alloy Cr <sub>2</sub> CoGa. <i>Physica B: Condensed Matter</i> , 2015, 476, 110-113.	1.3	11
151	Unusual site preference of Cu in Ni <sub>2</sub> -based Heusler alloys Ni <sub>2</sub> CuSb and Ni <sub>2</sub> CuSn. <i>Solid State Communications</i> , 2015, 222, 23-27.	0.9	8
152	First-principles investigation of possible martensitic transformation and magnetic properties of Heusler-type Pt <sub>2-x</sub> Mn <sub>1+x</sub> In alloys. <i>Functional Materials Letters</i> , 2015, 08, 1550064.	0.7	3
153	Site preference and compensation behavior in Co(Cr, Mn) <sub>2</sub> O <sub>4</sub> system. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	14
154	Coupled Magnetic and Structural Transitions in Fe-Doped MnNiSi Compounds. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-4.	1.2	3
155	Structural transitions, magnetic properties, and electronic structures of Co(Fe)-doped MnNiSi compounds. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	25
156	Transition from semiconducting to metallic-like conducting and weak antilocalization effect in single crystals of LuPtSb. <i>Applied Physics Letters</i> , 2015, 106, 102102.	1.5	34
157	Realization of multifunctional shape-memory ferromagnets in all- <i>d</i> -metal Heusler phases. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	152
158	Electric Field Control of the Magnetocaloric Effect. <i>Advanced Materials</i> , 2015, 27, 801-805.	11.1	88
159	Magnetic properties of Heusler alloy Mn <sub>2</sub> RuGe and Mn <sub>2</sub> RuGa ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 379, 1-5.	1.0	17
160	First-principle investigation of electronic structure, magnetism and phase stability of Heusler-type Pt <sub>2-x</sub> Mn <sub>1+x</sub> Ga alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 377, 40-43.	1.0	13
161	NMR investigation of atomic and electronic structures of half-Heusler topologically nontrivial semimetals. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 357-360.	0.7	16
162	The realization of ferro-ferrimagnetic transition and half-metallicity in half-Heusler CoMnGa alloy. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	2

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163	Magnetization jumps and exchange bias induced by a partially disordered antiferromagnetic state in (FeTiO <sub>3</sub> ) <sub>0.9</sub> -(Fe <sub>2</sub> O <sub>3</sub> ) <sub>0.1</sub> . Journal of Applied Physics, 2014, 115, 213907.	1.1	9
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166	A coupling of martensitic and metamagnetic transitions with collective magneto-volume and table-like magnetocaloric effects. Applied Physics Letters, 2014, 105, .	1.5	25
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171	Site preference and electronic structure of Mn <sub>2</sub> RuSn: A theoretical study. Journal of Magnetism and Magnetic Materials, 2014, 365, 132-137.	1.0	19
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178	Phase diagram, ferromagnetic martensitic transformation and magnetoresponse properties of Fe-doped MnCoGe alloys. Journal of Magnetism and Magnetic Materials, 2013, 332, 146-150.	1.0	95
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182	Electronic structure and possible martensitic transformation in Mn <sub>2</sub> NiGe and $\tilde{\text{A}}\text{Ni}_2\text{MnGe}$ . Intermetallics, 2013, 38, 139-143.	1.8	42
183	Large Linear Magnetoresistance and Shubnikov-de Hass Oscillations in Single Crystals of YPdBi Heusler Topological Insulators. Scientific Reports, 2013, 3, 2181.	1.6	90
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190	Structure and magnetic properties of Fe <sub>2</sub> NiZ (Z=Al, Ga, Si and Ge) Heusler alloys. Physica B: Condensed Matter, 2013, 420, 86-89.	1.3	49
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200	Magnetic-field-induced martensitic transformation in MnNiAl:Co alloys. Applied Physics Letters, 2012, 100, .	1.5	37
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208	Slater-Pauling behavior and half-metallicity in Heusler alloys $Mn_2CuZ$ ( $Z = Ge$ and $Sb$ ). Computational Materials Science, 2011, 50, 3119-3122.	1.4	59
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218	Vacancy-tuned paramagnetic/ferromagnetic martensitic transformation in Mn-poor Mn <sub>1-x</sub> CoGe alloys. Europhysics Letters, 2010, 91, 17003.	0.7	157
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