Xuan Luo

List of Publications by Year
in descending order

142 papers	4,006 citations	101384 36 h-index	149479 56 g-index
144 all docs	144 docs citations	144 times ranked	5396 citing authors

#	Article	IF	Citations
1	Experimental demonstration of hybrid improper ferroelectricity and the presence of abundant charged walls in (Ca,Sr)3Ti2O7 crystals. Nature Materials, 2015, 14, 407-413.	13.3	357
2	High carrier mobility in transparent Ba1â^'xLaxSnO3 crystals with a wide band gap. Applied Physics Letters, 2012, 100, .	1.5	170
3	Negative Thermal Expansion in Hybrid Improper Ferroelectric Ruddlesden-Popper Perovskites by Symmetry Trapping. Physical Review Letters, 2015, 114, 035701.	2.9	119
4	Magnetocaloric effect and Griffiths-like phase in La0.67Sr0.33MnO3 nanoparticles. Journal of Applied Physics, 2008, 104, .	1.1	111
5	Tricritical behavior of the two-dimensional intrinsically ferromagnetic semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="bold">CrGeTe</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 95, .	1.1	103
6	Extremely large magnetoresistance in the type-II Weyl semimetal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi>Te</mml:mi><mml:mi><mml:r Physical Review B, 2016, 94, .	1.1	101
7	Large magnetic entropy change near room temperature in antipervoskite SnCMn ₃. Europhysics Letters, 2009, 85, 47004.	0.7	100
8	Particle size effects on La0.7Ca0.3MnO3: size-induced changes of magnetic phase transition order and magnetocaloric study. Journal of Magnetism and Magnetic Materials, 2010, 322, 2360-2368.	1.0	96
9	Effects of hydrostatic pressure on spin-lattice coupling in two-dimensional ferromagnetic Cr2Ge2Te6. Applied Physics Letters, 2018, 112, .	1.5	94
10	Superconductivity enhancement in the S-doped Weyl semimetal candidate MoTe2. Applied Physics Letters, 2016, 108, 162601.	1.5	88
11	Role of rare earth ions in the magnetic, magnetocaloric and magnetoelectric properties of RCrO₃ (R = Dy, Nd, Tb, Er) crystals. Journal of Materials Chemistry C, 2016, 4, 11198-11204.	2.7	85
12	Electronic band structure and optical phonons of BaSnO3 and Ba0.97La0.03SnO3 single crystals: Theory and experiment. Journal of Applied Physics, 2012, 112, .	1.1	75
13	Orientation-Controlled Synthesis and Ferromagnetism of Single Crystalline Co Nanowire Arrays. Journal of Physical Chemistry C, 2008, 112, 1468-1472.	1.5	73
14	The First Roomâ€Temperature Ferroelectric Sn Insulator and Its Polarization Switching Kinetics. Advanced Materials, 2017, 29, 1601288.	11.1	67
15	Manipulation of type-I and type-II Dirac points in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PdTe</mml:mi><mml:mn>2</mml:mn></mml:msub></ superconductor by external pressure. Physical Review B, 2017, 96, .	1.1	62
16	Multiferroicity in doped hexagonal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LuFe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2015, 92, .	1.1	60
17	Crystal growth and superconductivity of FeSe_x. Superconductor Science and Technology, 2009, 22, 015020.	1.8	55
18	Tuning Phase Transitions in 1T-TaS₂ via the Substrate. Nano Letters, 2017, 17, 3471-3477.	4.5	55

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19	Planar Hall effect in the type-II Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>d</mml:mi></mml:msub></mml:mrow></mml:math>-MoTe2. Physical Review B, 2018, 98, .	1.1	54
20	Td-MoTe2: A possible topological superconductor. Applied Physics Letters, 2016, 109, .	1.5	51
21	Dimensionality-driven orthorhombic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>MoT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> at room temperature. Physical Review B, 2018, 97, .	1.1	51
22	Chiral Phase Transition in Charge Ordered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext mathvariant="normal">â^'</mml:mtext><mml:msub><mml:mi>TiSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 110, 196404.	2.9	49
23	Magnetic anisotropy and topological Hall effect in the trigonal chromium tellurides <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>x</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	1.1	48
24	Topological defects at octahedral tilting plethora in bi-layered perovskites. Npj Quantum Materials, 2016, 1, .	1.8	47
25	Symmetry Switching of Negative Thermal Expansion by Chemical Control. Journal of the American Chemical Society, 2016, 138, 5479-5482.	6.6	47
26	Critical behavior of two-dimensional intrinsically ferromagnetic semiconductor CrI3. Applied Physics Letters, 2018, 112, .	1.5	47
27	Domain topology and domain switching kinetics in a hybrid improper ferroelectric. Nature Communications, 2016, 7, 11602.	5.8	46
28	Crossover of critical behavior in La0.7Ca0.3Mn1â^'xTixO3. Journal of Magnetism and Magnetic Materials, 2010, 322, 242-246.	1.0	44
29	Reversible room-temperature magnetocaloric effect with large temperature span in antiperovskite compounds Ga1â^'xCMn3+x (x=, 0.06, 0.07, and 0.08). Journal of Applied Physics, 2009, 105, .	1.1	41
30	Giant c-axis nonlinear anomalous Hall effect in Td-MoTe2 and WTe2. Nature Communications, 2021, 12, 2049.	5.8	41
31	Size-induced changes of structural, magnetic and magnetocaloric properties of La0.7Ca0.2Ba0.1MnO3. Physica B: Condensed Matter, 2010, 405, 2733-2741.	1.3	40
32	Spin dynamics, electronic, and thermal transport properties of two-dimensional CrPS4 single crystal. Journal of Applied Physics, 2016, 119, .	1.1	40
33	Magnetocaloric effect and influence of Fe/Cr disorder on the magnetization reversal and dielectric relaxation in RFe0.5Cr0.5O3 systems. Applied Physics Letters, 2017, 110, .	1.5	40
34	La_{2/3}Sr_{1/3}VO₃ Thin Films: A New pâ€Type Transparent Conducting Oxide with Very High Figure of Merit. Advanced Electronic Materials, 2018, 4, 1700476.	2.6	40
35	Atomic scale electronic structure of the ferromagnetic semiconductor Cr2Ge2Te6. Science Bulletin, 2018, 63, 825-830.	4.3	40
36	Strain- and carrier-tunable magnetic properties of a two-dimensional intrinsically ferromagnetic semiconductor: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CoBr</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> monolayer. Physical Review B, 2019, 99, .	1.1	39

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37	Color Theorems, Chiral Domain Topology, and Magnetic Properties of Fe_xTaS₂. Journal of the American Chemical Society, 2014, 136, 8368-8373.	6.6	38
38	Temperature-Induced Lifshitz Transition and Possible Excitonic Instability in ZrSiSe. Physical Review Letters, 2020, 124, 236601.	2.9	34
39	Electrical transport and magnetic properties in La0.7Sr0.3MnO3 and SrFe12O19 composite system. Journal of Alloys and Compounds, 2009, 477, 414-419.	2.8	29
40	Strong Electronâ€“Phonon Coupling in the Excitonic Insulator Ta₂NiSe₅. Inorganic Chemistry, 2019, 58, 9036-9042.	1.9	29
41	Anisotropic magnetic entropy change in the hard ferromagnetic semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">I</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2019, 100, .	1.1	29
42	Structural phase transition and superconductivity hierarchy in 1T-TaS2 under pressure up to 100â€‰GPa. Npj Quantum Materials, 2021, 6, .	1.8	29
43	Origin of the turn-on phenomenon in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>d</mml:mi></mml:msub></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	1.1	27
44	Possible strain induced Mott gap collapse in 1T-TaS2. Communications Physics, 2019, 2, .	2.0	27
45	Effect of stacking order on the electronic state of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^’</mml:mtext></mml:mrow></mml:math> Physical Review B, 2022, 105, .	1.1	27
46	Room-temperature angular-dependent topological Hall effect in chiral antiferromagnetic Weyl semimetal Mn3Sn. Applied Physics Letters, 2019, 115, .	1.5	25
47	Critical behavior of double perovskite La2NiMnO6. Journal of Physics Condensed Matter, 2008, 20, 465211.	0.7	24
48	Solution processing of transparent conducting epitaxial La:BaSnO3 films with improved electrical mobility. Applied Physics Letters, 2015, 106, 101906.	1.5	24
49	Roles of the Narrow Electronic Band near the Fermi Level in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^’</mml:mtext><mml:msub><mml:mrow><m -Related Layered Materials. Physical Review Letters, 2021, 126, 256402.	2.9	24
50	The magnetic entropy change in the double perovskite La2NiMnO6 with strong spinâ€“phonon coupling. Solid State Communications, 2009, 149, 810-813.	0.9	23
51	Magnetic and electrical properties of Bi0.8Ca0.2Fe1â^’xMnxO3 (0â‰¤xâ‰¤0.5). Journal of Alloys and Compounds, 2009, 488, 254-259.	2.8	22
52	Superconductivity in CaSn₃ single crystals with a AuCu₃-type structure. Journal of Materials Chemistry C, 2015, 3, 11432-11438.	2.7	22
53	Anomalous Hall effect of the quasi-two-dimensional weak itinerant ferromagnet Cr _{4.14} Te ₈. Europhysics Letters, 2018, 124, 67005.	0.7	22
54	Origin of the structural phase transition in single-crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>TaT</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 98, .	1.1	22

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55	Photocurrent Imaging of Multi-Memristive Charge Density Wave Switching in Two-Dimensional 1T-TaS₂. Nano Letters, 2020, 20, 7200-7206.	4.5	22
56	Single crystal growth and characterizations of Cu0.03TaS2 superconductors. Journal of Crystal Growth, 2008, 311, 218-221.	0.7	21
57	Origin of the extremely large magnetoresistance in topological semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PtS</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	1.1	21
58	Universal phase diagram of superconductivity and charge density wave versus high hydrostatic pressure in pure and Se-doped 1Tâ˜TaS2. Physical Review B, 2018, 97, .	1.1	21
59	Observation of the large magnetocaloric effect in an orbitalâ€“spin-coupled system MnV2O4. Journal of Physics Condensed Matter, 2009, 21, 436010.	0.7	20
60	Magnetic properties ofSr3NiIrO6andSr3CoIrO6: Magnetic hysteresis with coercive fields of up to 55 T. Physical Review B, 2016, 94, .	1.1	20
61	Spin-orbit coupling enhanced superconductivity in Bi-rich compounds ABi3 (Aâ€‰=â€‰Sr and Ba). Scientific Reports, 2016, 6, 21484.	1.6	20
62	Exchange bias in the layered cobaltite Sr1.5Pr0.5CoO4. Journal of Applied Physics, 2008, 104, 023914.	1.1	19
63	Anomalous Hall effect in two-dimensional non-collinear antiferromagnetic semiconductor Cr0.68Se. Applied Physics Letters, 2017, 111, .	1.5	19
64	Growth, Microstructures, and Optoelectronic Properties of Epitaxial BaSn_{1â€“x}Sb_xO_{3â˜Î´} Thin Films by Chemical Solution Deposition. ACS Applied Energy Materials, 2018, 1, 1585-1593.	2.5	19
65	Chiral charge density waves induced by Ti-doping in 1T-TaS2. Applied Physics Letters, 2021, 118, .	1.5	19
66	Transparent conducting p-type thin films of c-axis self-oriented Bi₂Sr₂Co₂O_y with high figure of merit. Chemical Communications, 2014, 50, 9697-9699.	2.2	18
67	Magnetoelectric and Raman spectroscopic studies of monocrystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>MnC</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	1.1	18
68	Observation of the large orbital entropy in Zn-doped orbital-spin-coupled system MnV2O4. Applied Physics Letters, 2010, 96, .	1.5	17
69	Observation of the large magnetocaloric effect and suppression of orbital entropy change in Fe-doped MnV2O4. Journal of Applied Physics, 2014, 115, 034903.	1.1	16
70	Origin of magnetoresistance suppression in thin Î³â˜MoTe2. Physical Review B, 2018, 97, .	1.1	16
71	Magnetic anisotropy and anomalous Hall effect in monoclinic single crystal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cr</mml:mi><mml:mn>1.5</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	1.1	16
72	Superconducting and Topological Properties in Centrosymmetric PbTaS₂ Single Crystals. Journal of Physical Chemistry C, 2020, 124, 6349-6355.	1.5	16

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73	Anisotropic intermediate coupling superconductivity in Cu_{0.03}TaS₂. Journal of Physics Condensed Matter, 2009, 21, 145701.	0.7	15
74	Field-induced topological Hall effect in antiferromagnetic axion insulator candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>EuIn</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Research, 2022, 4, .	1.3	15
75	Large reversible magnetocaloric effect in spinel MnV2O4 with minimal Al substitution. Journal of Magnetism and Magnetic Materials, 2012, 324, 766-769.	1.0	14
76	Spin Liquid State and Topological Structural Defects in Hexagonal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>TbInO</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review X, 2019, 9, .	2.8	14
77	Atomically resolved probe-type scanning tunnelling microscope for use in harsh vibrational cryogen-free superconducting magnet. Ultramicroscopy, 2019, 205, 20-26.	0.8	14
78	Thermal history dependent photoconductivity in Pr0.5Sr0.5MnO3 thin film. Journal of Applied Physics, 2009, 106, .	1.1	13
79	Resistivity plateau and large magnetoresistance in the charge density wave system TaTe4. Applied Physics Letters, 2017, 110, .	1.5	13
80	Inducing and tuning Kondo screening in a narrow-electronic-band system. Nature Communications, 2022, 13, 2156.	5.8	13
81	Oxygen vacancies-induced metal-insulator transition in La2/3Sr1/3VO3 thin films: Role of the oxygen substrate-to-film transfer. Applied Physics Letters, 2014, 105, .	1.5	12
82	Single-water-dipole-layer-driven Reversible Charge Order Transition in 1T-TaS₂. Nano Letters, 2020, 20, 8854-8860.	4.5	12
83	Planar Hall effect in the quasi-one-dimensional topological superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ta</mml:mi><mml:msub><mml:mi>Sa</mml:mi></mml:msub></mml:mrow></mml:math> Physical Review B, 2021, 104, .	3.2	12
84	Critical behavior of spinel vanadate MnV1.95Al0.05O4. Journal of Magnetism and Magnetic Materials, 2013, 326, 205-209.	1.0	11
85	Terahertz magnetic circular dichroism induced by exchange resonance in CoCr_2O_4 single crystal. Optics Express, 2015, 23, 17805.	1.7	11
86	Magnetic evolution of spinel Mn1â^'xZnxCr2O4 single crystals. RSC Advances, 2016, 6, 56839-56844.	1.7	11
87	Magnetocrystalline interactions in spinel MnCr2O4 single crystal probed by electron spin resonance. Journal of Alloys and Compounds, 2017, 711, 250-257.	2.8	11
88	Effects of disorder and hydrostatic pressure on charge density wave and superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi></mml:mrow></mml:math> Physical Review B, 2021, 103, .	1.1	11
89	The giant planar Hall effect and anisotropic magnetoresistance in Dirac node arcs semimetal PtSn₄. Journal of Physics Condensed Matter, 2020, 32, 315702.	0.7	11
90	Mn doping-induced semiconducting behavior in the perovskite molybdates SrMo1â^'xMnxO3(0â‰¤xâ‰¤0.20). Journal of Applied Physics, 2007, 102, 103903.	1.1	10

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91	Large magnetoresistance induced by surface ferromagnetism in A-type antiferromagnetic La0.4Sr0.6MnO3 nanoparticles. Journal of Magnetism and Magnetic Materials, 2009, 321, 2009-2014.	1.0	10
92	Structural, magnetic and electrical transport properties of V doped Bi0.3Ca0.7MnO3. Journal of Alloys and Compounds, 2009, 484, 36-39.	2.8	10
93	Origin of Anisotropic Magnetic Properties in the Ferromagnetic Semiconductor CrSbSe₃ with a Pseudo-One-Dimensional Structure. Journal of Physical Chemistry C, 2020, 124, 11110-11116.	1.5	10
94	Origin and manifestation of the anharmonic potential felt by an ion-cloud in an actual Paul trap. Applied Physics B: Lasers and Optics, 1996, 62, 421-426.	1.1	9
95	Unipolar resistive switching characteristics and scaling behaviors in La2Mo2O9 thin films for nonvolatile memory applications. Journal of Applied Physics, 2016, 120, 215303.	1.1	9
96	Visualization of electronic topology in ZrSiSe by scanning tunneling microscopy. Physical Review B, 2018, 98, .	1.1	9
97	Edge-Induced Room-Temperature Ferromagnetism in Carbon Nanosheets. Journal of Physical Chemistry C, 2020, 124, 7396-7403.	1.5	9
98	Reconciling the bulk metallic and surface insulating state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>T</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi mathvariant="normal">TaSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2022, 105, .	1.1	9
99	Visualizing the evolution from Mott insulator to Anderson insulator in Ti-doped 1T-TaS2. Npj Quantum Materials, 2022, 7, .	1.8	9
100	Critical behavior of the spinel CdCr2S4. Journal of Applied Physics, 2009, 106, 113920.	1.1	8
101	Magnetic fan structures in Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Sr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1.5</mml:mn></mml:mrow></mml:msub></mml:math>Zn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:	1.1	8
102	The Zeeman splitting of bulk 2H-MoTe2 single crystal in high magnetic field. Applied Physics Letters, 2017, 110, 102102.	1.5	8
103	Frustration and Glasslike Character in RIn_{1â€“x}Mn_xO₃ (R = Tb, Dy, Gd). Inorganic Chemistry, 2018, 57, 12501-12508.	1.9	8
104	Magnetic Entropy Scaling in Ferromagnetic Semiconductor CrGeTe₃. Physica Status Solidi (B): Basic Research, 2019, 256, 1900052.	0.7	8
105	Origin of the large magnetoresistance in the candidate chiral superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:msub><mml:mi>H</mml:mi><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2020, 102, .	1.1	8
106	Multiple domain structure and symmetry types in narrow temperature and magnetic field ranges in layered Cr2Ge2Te6 crystal measured by magnetic force microscope. Materials Characterization, 2021, 173, 110913.	1.9	8
107	Forming-free unipolar resistive switching behavior with conical conducting filaments in LaVO4thin films. Journal Physics D: Applied Physics, 2016, 49, 165308.	1.3	7
108	A variable-temperature scanning tunneling microscope operated in a continuous flow cryostat. Review of Scientific Instruments, 2019, 90, 093702.	0.6	7

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109	Possible magnetic correlation above the ferromagnetic phase transition temperature in Cr₂Ge₂Te₆. Physical Chemistry Chemical Physics, 2019, 21, 25220-25225.	1.3	7
110	Generation and detection of coherent longitudinal acoustic waves in ultrathin 1Tâ€™-MoTe2. Applied Physics Letters, 2019, 115, .	1.5	7
111	Effects of pressure on the structure and properties of layered ferromagnetic Cr2Ge2Te6. Physica B: Condensed Matter, 2020, 595, 412344.	1.3	7
112	Mobility spectrum analytical approach for the type-II Weyl semimetal Td-MoTe2. Applied Physics Letters, 2018, 112, .	1.5	6
113	Spinâ€“lattice and electronâ€“phonon coupling in 3d/5d hybrid Sr3NiIrO6. Npj Quantum Materials, 2019, 4, .	1.8	6
114	Improved optoelectronic properties in solution-processed epitaxial rare-earth-doped BaSnO3 thin films via grain size engineering. Applied Physics Letters, 2019, 115, .	1.5	6
115	Ultra-long spin relaxation in two-dimensional ferromagnet Cr₂Ge₂Te₆ flake. 2D Materials, 2021, 8, 045040.	2.0	6
116	Colossal 3D Electrical Anisotropy of MoAlB Single Crystal. Small, 2022, 18, e2104460.	5.2	6
117	High-Performance Mid-IR to Deep-UV van der Waals Photodetectors Capable of Local Spectroscopy at Room Temperature. Nano Letters, 2022, 22, 3425-3432.	4.5	6
118	Structure, magnetic properties, and electrical transport in layered cobaltites Sr2â^'xPrxCoO4. Journal of Applied Physics, 2008, 103, 103707.	1.1	5
119	The effect of Gd-doping on the charge ordering state of Bi0.3â^'xGdxCa0.7MnO3 (0â‰¤xâ‰¤0.30). Journal of Magnetism and Magnetic Materials, 2009, 321, 3933-3937.	1.0	5
120	Magnetic phase diagram of Al-doped spinel MnV2O4. Solid State Communications, 2013, 159, 88-92.	0.9	5
121	Unipolar resistive switching behavior of amorphous SrMoO4 thin films deposited at room temperature. Ceramics International, 2017, 43, 3177-3182.	2.3	5
122	Two distinct superconducting phases and pressure-induced crossover from type-II to type-I superconductivity in the spin-orbit-coupled superconductors <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaB</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrB	1.1	5
123	Pseudogap and Weak Multifractality in 2D Disordered Mott Charge-Density-Wave Insulator. Nano Letters, 2020, 20, 6299-6305.	4.5	5
124	Retainable Superconductivity and Structural Transition in 1T-TaSe2 Under High Pressure. Inorganic Chemistry, 2021, 60, 11385-11393.	1.9	5
125	Melting of charge density wave and Mott gap collapse on 1Tâ^'TaS2 induced by interfacial water. Physical Review Materials, 2020, 4, .	0.9	5
126	Magnetochromic effect in multiferroicRIn1â^'xMnxO3(R=Tb, Dy). Physical Review B, 2015, 91, .	1.1	4

#	Article	IF	Citations
127	Magnetic entropy scaling in two-dimensional intrinsically ferromagnetic semiconductor CrI3. Journal of Applied Physics, 2019, 125, 053901.	1.1	4
128	Micro-MOKE with optical interference in the study of 2D Cr2Ge2Te6 nanoflake based magnetic heterostructures. AIP Advances, 2019, 9, .	0.6	4
129	Magnetic domain structures and their evolution in quasi-two-dimensional ferromagnet Cr5Te8. Journal of Magnetism and Magnetic Materials, 2020, 512, 167019.	1.0	4
130	Phononâ€Related Monochromatic THz Radiation and its Magnetoâ€Modulation in 2D Ferromagnetic Cr₂Ge₂Te₆. Advanced Science, 2022, 9, e2103229.	5.6	4
131	Modulation of Insulator-Metal Transition Temperature by Visible Light in La 7/8 Sr 1/8 MnO 3 Thin Film. Chinese Physics Letters, 2010, 27, 097504.	1.3	3
132	Laser melting and quenching effects on magnetic domains in quasi-two-dimensional ferromagnetic Cr5Te8 crystal. Applied Physics Letters, 2020, 117, .	1.5	3
133	Modulation of electronic state in copper-intercalated 1T-TaS2. Nano Research, 2022, 15, 4327-4333.	5.8	3
134	Observation and Manipulation of a Phase Separated State in a Charge Density Wave Material. Nano Letters, 2022, 22, 1929-1936.	4.5	3
135	Photoinduced interlayer dynamics in T_d-MoTe₂: A broadband pump-probe study. Applied Physics Letters, 2022, 120, 123102.	1.5	3
136	Pressure-Induced Electronic and Structural Transition in Nodal-Line Semimetal ZrSiSe. Inorganic Chemistry, 2021, 60, 11140-11146.	1.9	2
137	Different effects of Ce-doping on orbital and spin ordering in perovskite vanadate Sm1â^'x CexVO3. Chinese Physics B, 2013, 22, 047501.	0.7	1
138	Crossover of persistent photoconductivity in a phase-separated La0.325Pr0.3Ca0.375MnO3thin film. Physica Scripta, 2013, 87, 055701.	1.2	1
139	Magnetic, electronic, and thermal transport properties of the quasi-two-dimensional Sr 3 Fe 2 O 6.6 single crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1757-1763.	0.9	1
140	Transparent Conducting Oxides: La_{2/3}Sr_{1/3}VO₃ Thin Films: A New pâ€Type Transparent Conducting Oxide with Very High Figure of Merit (Adv. Electron. Mater. 3/2018). Advanced Electronic Materials, 2018, 4, 1870016.	2.6	1
141	Complex ferromagnetic state transformation in single crystal. Journal of Magnetism and Magnetic Materials, 2010, 322, 389-394.	1.0	0
142	Magnetic and Transport Properties Based on Transition-Metal Compounds. Advances in Condensed Matter Physics, 2014, 2014, 1-2.	0.4	0