

Yang Yang Lv

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband Photovoltaic Detectors Based on an Atomically Thin Heterostructure. Nano Letters, 2016, 16, 2254-2259.	9.1	322
2	Experimental Observation of Topological Edge States at the Surface Step Edge of the Topological Insulator ZrTe_5 . Physical Review Letters, 2016, 116, 176803.	7.8	164
3	Experimental Observation of Anisotropic Adler-Bell-Jackiw Anomaly in Type-II Weyl Semimetal M_3SiS_5 . Physical Review Letters, 2017, 118, 096603.	3.2	131
4	Experimental Observation of Anisotropic Adler-Bell-Jackiw Anomaly in Type-II Weyl Semimetal Crystals at the Quasiclassical Regime. Physical Review Letters, 2017, 118, 096603.	7.8	114
5	Extremely large and significantly anisotropic magnetoresistance in ZrSiS single crystals. Applied Physics Letters, 2016, 108, .	3.3	91
6	Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure. Advanced Materials, 2019, 31, e1806130.	21.0	75
7	Composition and temperature-dependent phase transition in miscible $\text{Mo}_{1-x}\text{W}_x\text{Te}_2$ single crystals. Scientific Reports, 2017, 7, 44587.	3.3	58
8	Superconductivity in Potassium-Intercalated Td-WTe_2 . Nano Letters, 2018, 18, 6585-6590.	9.1	52
9	Investigation on the phase-transition-induced hysteresis in the thermal transport along the c-axis of MoTe_2 . Npj Quantum Materials, 2017, 2, .	5.2	41
10	High-harmonic generation in Weyl semimetal $\hat{\Gamma}^2$ -WP2 crystals. Nature Communications, 2021, 12, 6437.	12.8	40
11	Tuning the Electronic Structure of an $\hat{\Gamma}^{\pm}$ -Antimonene Monolayer through Interface Engineering. Nano Letters, 2020, 20, 8408-8414.	9.1	33
12	Dramatically decreased magnetoresistance in non-stoichiometric WTe_2 crystals. Scientific Reports, 2016, 6, 26903.	3.3	32
13	Infrared and Raman spectra of $\text{Bi}_2\text{O}_2\text{X}$ and Bi_2OX_2 ($\text{X} = \text{S}, \text{Se}, \text{and Te}$) studied from first principles calculations. RSC Advances, 2019, 9, 18042-18049.	3.6	26
14	Microstructure, growth mechanism and anisotropic resistivity of quasi-one-dimensional ZrTe_5 crystal. Journal of Crystal Growth, 2017, 457, 250-254.	1.5	24
15	Composition dependent phase transition and its induced hysteretic effect in the thermal conductivity of $\text{W}_x\text{Mo}_{1-x}\text{Te}_2$. Applied Physics Letters, 2017, 110, .	3.3	22
16	Shubnikov-de Haas oscillations in bulk ZrTe_5 single crystals: Evidence for a weak topological insulator. Physical Review B, 2018, 97, .	3.2	22
17	Large $\hat{\Gamma}^{\pm}$ -Cul semiconductor single crystal growth by a temperature reduction method from an NH_4I aqueous solution. CrystEngComm, 2015, 17, 862-867.	3.2	22
18	Large $\hat{\Gamma}^3$ -Cul semiconductor single crystal growth by a temperature reduction method from an NH_4I aqueous solution. CrystEngComm, 2015, 17, 862-867.	2.6	20

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19	Kinetics-Limited Two-Step Growth of van der Waals Puckered Honeycomb Sb Monolayer. ACS Nano, 2020, 14, 16755-16760.	14.6	20
20	Experimental observation of conductive edge states in weak topological insulator candidate HfTe5. APL Materials, 2018, 6, .	5.1	19
21	Growth of Black Phosphorus Nanobelts and Microbelts. Small, 2018, 14, 1702501.	10.0	18
22	The physical mechanism of extremely low thermal conductivity of BiCuTeO and BiCuSeO revealed by inelastic neutron and Raman spectroscopy. Journal of Alloys and Compounds, 2020, 826, 154161.	5.5	18
23	Strong correlation of the growth mode and electrical properties of BiCuSeO single crystals with growth temperature. CrystEngComm, 2015, 17, 6136-6141.	2.6	17
24	Growth and characterization of the dynamical axion insulator candidate Mn_2Te with intrinsic antiferromagnetism. Physical Review B, 2021, 104, .	3.2	16
25	quasi-two-dimensional Fermi liquid single-crystal B_2C with tunable magnetotransport properties in the	3.2	16
26	Tunable Resistance or Magnetoresistance Cusp and Extremely Large Magnetoresistance in Defect-Engineered $HfTe_5$ Single Crystals. Physical Review Applied, 2018, 9, .	3.8	15
27	One-Order Decreased Lattice Thermal Conductivity of SnSe Crystals by the Introduction of Nanometer SnSe ₂ Secondary Phase. Journal of Physical Chemistry C, 2019, 123, 27666-27671.	3.1	14
28	A possible high-mobility signal in bulk MoTe2: Temperature independent weak phonon decay. AIP Advances, 2016, 6, .	1.3	13
29	Ultra-low thermal conductivities along <i>c</i> -axis of naturally misfit layered Bi ₂ [AE]2Co2O _y (AE = Tl, ET, Q, 0) ρ_{BT}/ρ_{0T}	3.3	12
30	Comparisons of electrical/magneto-transport properties of degenerate semiconductors BiCuXO (X=As, Sb, Te) ρ_{BT}/ρ_{0T}	2.5	12
31	Large single crystal growth and characterization of CuX (X=Cl, Br) by temperature reduction method. Journal of Crystal Growth, 2014, 402, 337-341.	1.5	11
32	Lattice dynamics of K _{1-x} RhO ₂ single crystals. AIP Advances, 2015, 5, .	1.3	11
33	Direct Growth of van der Waals Tin Diodide Monolayers. Advanced Science, 2021, 8, e2100009.	11.2	10
34	Depotassiation of K _{0.62} RhO ₂ and electronic property of the end-product K _{0.32} RhO ₂ single crystal. Solid State Communications, 2016, 230, 1-5.	1.9	9
35	Preparation, Structure Evolution, and Metal-Insulator Transition of Na _x RhO ₂ Crystals (0.25 ≤ x ≤ 1). Inorganic Chemistry, 2018, 57, 2730-2735.	4.0	9
36	Subtle effect of doping on the charge density wave in $TaTe_2$ (Tf_5057Td) ρ_{BT}/ρ_{0T}	3.2	9

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37	Anisotropic electrical and thermal conductivity in Bi ₂ A _{1-x} Ca _x Sr _{1-x} Ba _x (x=0.0, 0.25, 0.5, 1) Tj ETQd	2.5	7
38	The relationship between anisotropic magnetoresistance and topology of Fermi surface in Td-MoTe ₂ crystal. Journal of Applied Physics, 2017, 122, .	2.5	7
39	Electrical, magneto-transport and significant thermoelectric properties of Te-rich ZrTe ₅ +1' polycrystals. Journal of Alloys and Compounds, 2018, 764, 540-544.	5.5	7
40	High thermoelectric performance of NaF-doped Bi ₂ Ca ₂ Co ₂ O ceramic samples. Journal of Materials Research and Technology, 2022, 17, 1598-1604.	5.8	7
41	Observation of dimension-crossover of a tunable 1D Dirac fermion in topological semimetal Nb ₆ Te ₂ . Npj Quantum Materials, 2022, 7, .	5.2	7
42	Growth habit and optical properties of ¹³⁷ CuI single crystals via a temperature difference method. RSC Advances, 2015, 5, 71514-71518.	3.6	6
43	Ultralow cross-plane lattice thermal conductivity caused by Bi ²⁺ /Bi ³⁺ interfaces in natural superlattice-like single crystals. CrystEngComm, 2019, 21, 6261-6268.	2.6	6
44	One-Order Decrease of Thermal Conductivity in Nanostructured ZrTe ₅ and HfTe ₅ Crystals. Crystal Growth and Design, 2020, 20, 680-687.	3.0	6
45	Measurement of the bulk and surface bands in Dirac line-node semimetal ZrSiS. Chinese Physics B, 2018, 27, 017105.	1.4	5
46	Antimonene: Van der Waals Heteroepitaxial Growth of Monolayer Sb in a Puckered Honeycomb Structure (Adv. Mater. 5/2019). Advanced Materials, 2019, 31, 1970035.	21.0	5
47	Turning ZrTe ₅ into a semiconductor through atom intercalation. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	5.1	5
48	Modulating electrical transport properties of SnSe crystal to improve the thermoelectric power factor by adjusting growth method. Applied Physics Letters, 2020, 116, .	3.3	5
49	An electronic phase diagram of hole-doped BiCuSeO crystals determined by transport characterization under various growth conditions. CrystEngComm, 2021, 23, 273-281.	2.6	5
50	Enhanced photothermoelectric detection in Co:BiCuSeO crystals with tunable Seebeck effect. Optics Express, 2022, 30, 8356.	3.4	5
51	The Microstructural Characterization of Multiferroic LaFeO ₃ -YMnO ₃ Multilayers Grown on (001)- and (111)-SrTiO ₃ Substrates by Transmission Electron Microscopy. Materials, 2017, 10, 839.	2.9	3
52	Surface Structure and Reconstructions of HgTe (111) Surfaces. Chinese Physics Letters, 2018, 35, 026802.	3.3	3
53	Theoretical and experimental evidence for the intrinsic three-dimensional Dirac state in Cu_2HgSnS_4 Physical Review B, 2019, 100, .	3.2	3
54	Non-hydrostatic pressure-dependent structural and transport properties of BiCuSeO and BiCuSO single crystals. Journal of Physics Condensed Matter, 2021, 33, 105702.	1.8	3

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55	Evidence of metal-semimetal-transition from Cu ₂ TlSe ₂ to Cu ₂ TlTe ₂ . Materials Research Bulletin, 2017, 89, 97-101.	5.2	2
56	Crystal growth and magneto-transport behavior of PdS _{1-x} Te _x . Journal of Crystal Growth, 2018, 487, 116-119.	1.5	2
57	NaYTe ₂ O ₇ : A new compound with mixed valence of tellurium and large birefringence. Journal of Alloys and Compounds, 2020, 816, 152535.	5.5	2
58	Anisotropically electrical property of Anderson insulator state in Bi ₂ Ca _{2-x} Sr _x Co ₂ O _y (x=0.0, 0.5, 1.0). Journal of Applied Physics, 2020, 123, 095101.	9.5	2
59	Anomalous transport and magnetic properties induced by slight Cu valence alternation in layered oxytelluride BiCuTeO. RSC Advances, 2020, 10, 18753-18759.	3.6	2
60	The electrical- and magneto-transport properties of Rb-, Sn-, and Co-doped BiCuSeO crystals. AIP Advances, 2021, 11, 105207.	1.3	2
61	Realization of adjustable electron concentration and its effect on electrical- and Seebeck-property of n-type SnSe crystals. Applied Physics Letters, 2022, 120, 022102.	3.3	2
62	Kondo-effect and sign-adjustable unconventional anomalous Hall effect in rare-earth elements doped K _{0.6} RhO ₂ crystals. Solid State Communications, 2020, 313, 113896.	1.9	1
63	Growth, Structure, Electrical Transport and Thermal Stability of New Allotropic MoC ₄ Crystals. Crystal Growth and Design, 2021, 21, 4909-4913.	3.0	1
64	Magnetic Field Tuning of Magnetic- and Structure-Phase Transition in Mn ₂ V ₂ O ₇ Crystals. Journal of Physical Chemistry C, 2022, 126, 5055-5063.	3.1	1
65	Growth and Electrical Properties of Polymorphs of Mo-Te Crystals. Materials Research Bulletin, 2022, 151, 111796.	5.2	1
66	Electrical scattering mechanism evolution in un-doped and halogen-doped Bi ₂ O ₂ Se single crystals. Journal of Physics Condensed Matter, 2020, 32, 365705.	1.8	0
67	Synthesis, structure, and electronic properties of the Li ₁₁ RbGd ₄ Te ₆ O ₃₀ single crystal. RSC Advances, 2020, 10, 11450-11454.	3.6	0
68	Surface step edge-assisted monolayer epitaxy of \pm -antimonene on SnSe ₂ substrate. AIP Advances, 2021, 11, 095014.	1.3	0
69	Electronic structure and spin-orbit coupling in ternary transition metal chalcogenides Cu ₂ TiX ₂ (X = Se, Te). Chinese Physics B, 2022, 31, 037101.	1.4	0
70	Observation of nontrivial topological electronic structure of orthorhombic SnSe. Physical Review Materials, 2022, 6, .	2.4	0