

Shu-Hua Yao

List of Publications by Year in descending order

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docs citations

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times ranked

2503
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Enhanced photothermoelectric detection in Co:BiCuSeO crystals with tunable Seebeck effect. Optics Express, 2022, 30, 8356.	3.4	5
3	Magnetic Field Tuning of Magnetic- and Structure-Phase Transition in $Mn_{2V_{2}O_{7}}$ Crystals. Journal of Physical Chemistry C, 2022, 126, 5055-5063.	3.1	1
4	Growth and Thermal Conductivity Study of $CuCr_{2}Se_{4}$ - $CuCrSe_{2}$ Hetero-Composite Crystals. Crystals, 2022, 12, 433.	2.2	1
5	Observation of nontrivial topological electronic structure of orthorhombic SnSe. Physical Review Materials, 2022, 6, .	2.4	0
6	Subtle effect of doping on the charge density wave in $TaTe_{2}$ ($Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537 Td$)	3.2	2
7	Ultralow Lattice Thermal Conductivity of $A_{0.5}RhO_{2}$ (A = K, Rb, Cs) Induced by Interfacial Scattering and Resonant Scattering. Journal of Physical Chemistry C, 2021, 125, 11648-11655.	3.1	2
8	Growth, Structure, Electrical Transport and Thermal Stability of New Allotropic MoC_{4} Crystals. Crystal Growth and Design, 2021, 21, 4909-4913.	3.0	1
9	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
10	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
11	The electrical- and magneto-transport properties of Rb-, Sn-, and Co-doped BiCuSeO crystals. AIP Advances, 2021, 11, 105207.	1.3	2
12	High-harmonic generation in Weyl semimetal \hat{I}^2 -WP2 crystals. Nature Communications, 2021, 12, 6437.	12.8	40
13	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
14	Electronic structure of correlated topological insulator candidate YbB6 studied by photoemission and quantum oscillation. Chinese Physics B, 2020, 29, 017304.	1.4	1
15	Spectral weight reduction of two-dimensional electron gases at oxide surfaces across the ferroelectric transition. Scientific Reports, 2020, 10, 16834.	3.3	1
16	First-principles calculations of structural and electronic properties of layered $AxRhO_{2}$ (A = Li, Na, K,)	1.3	4
17	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
18	Anomalous transport and magnetic properties induced by slight Cu valence alternation in layered oxytelluride BiCuTeO. RSC Advances, 2020, 10, 18753-18759.	3.6	2

#	ARTICLE	IF	CITATIONS
19	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
20	Comparisons of electrical/magneto-transport properties of degenerate semiconductors BiCuXO (X= S, Se, and Te). Tj,ETQq0 0 0 rgBT /Ov	2.5	12
21	Low lattice thermal conductivity and high thermoelectric figure of merit in NaBi_2Te_3 . Physical Review B, 2019, 99, .	3.2	16
22	Infrared and Raman spectra of $\text{Bi}_2\text{O}_2\text{X}$ and Bi_2OX_2 (X= S, Se, and Te) studied from first principles calculations. RSC Advances, 2019, 9, 18042-18049.	3.6	26
23	quasi-two-dimensional Fermi liquid single-crystal $\text{Bi}_2\text{O}_2\text{X}$ ($\text{X} = \text{S, Se, and Te}$) studied from first principles calculations. RSC Advances, 2019, 9, 18042-18049.	3.2	16
24	Ultralow cross-plane lattice thermal conductivity caused by Bi δ O/Bi δ O interfaces in natural superlattice-like single crystals. CrystEngComm, 2019, 21, 6261-6268.	2.6	6
25	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
26	Crystal growth and magneto-transport behavior of PdS _{1-x} Te _x . Journal of Crystal Growth, 2018, 487, 116-119.	1.5	2
27	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
28	First-principles study of lattice thermal conductivity in ZrTe ₅ and HfTe ₅ . Journal of Applied Physics, 2018, 123, .	2.5	19
29	Shubnikov-de Haas oscillations in bulk ZrTe_5 single crystals: Evidence for a weak topological insulator. Physical Review B, 2018, 97, .	3.2	22
30	Experimental observation of conductive edge states in weak topological insulator candidate HfTe ₅ . APL Materials, 2018, 6, .	5.1	19
31	Quantum oscillations of electrical resistivity in an insulator. Science, 2018, 362, 65-69.	12.6	79
32	Mobility-controlled extremely large magnetoresistance in perfect electron-hole compensated WTe_2 single crystals. Physical Review B, 2018, 97, .	3.2	22
33	Electrical, magneto-transport and significant thermoelectric properties of Te-rich ZrTe_5 polycrystals. Journal of Alloys and Compounds, 2018, 764, 540-544.	5.5	7
34	Tunable Resistance or Magnetoresistance Cusp and Extremely Large Magnetoresistance in Defect-Engineered WTe_5 Single Crystals. Physical Review Applied, 2018, 9, .	3.8	15
35	Microstructure, growth mechanism and anisotropic resistivity of quasi-one-dimensional ZrTe_5 crystal. Journal of Crystal Growth, 2017, 457, 250-254.	1.5	24
36	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

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37	Transition between strong and weak topological insulator in ZrTe5 and HfTe5. Scientific Reports, 2017, 7, 45667.	3.3	77
38	Dirac line nodes and effect of spin-orbit coupling in the nonsymmorphic critical semimetals <math display="block">M\text{SiS}	3.2	131
39	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
40	The relationship between anisotropic magnetoresistance and topology of Fermi surface in Td-MoTe2 crystal. Journal of Applied Physics, 2017, 122, .	2.5	7
41	Ultra-low thermal conductivities along c -axis of naturally misfit layered $\text{Bi}_2[\text{AE}]_2\text{Co}_2\text{O}_y$ ($\text{AE} = \text{Tj, ETQq1}$)	3.3	12
42	Large thermopower from dressed quasiparticles in the layered cobaltates and rhodates. Physical Review B, 2017, 96, .	3.2	11
43	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
44	Giant positive magnetoresistance in half-metallic double-perovskite SrCrWO_6 thin films. Science Advances, 2017, 3, e1701473.	10.3	52
45	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
46	Spectroscopic evidence for the gapless electronic structure in bulk ZrTe5. Journal of Electron Spectroscopy and Related Phenomena, 2017, 219, 45-52.	1.7	19
47	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
48	Dramatically decreased magnetoresistance in non-stoichiometric WTe_2 crystals. Scientific Reports, 2016, 6, 26903.	3.3	32
49	Extremely large and significantly anisotropic magnetoresistance in ZrSiS single crystals. Applied Physics Letters, 2016, 108, .	3.3	91
50	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
51	Predicted Quantum Topological Hall Effect and Noncoplanar Antiferromagnetism in $\text{K}_x\text{O}_{0.5-x}\text{Te}_2$ Physical Review Letters, 2016, 116, 256601.	7.8	57
52	Depotassiation of $\text{K}_0.62\text{RhO}_2$ and electronic property of the end-product $\text{K}_0.32\text{RhO}_2$ single crystal. Solid State Communications, 2016, 230, 1-5.	1.9	9
53	Anisotropic electrical and thermal conductivity in $\text{Bi}_2\text{AE}_2\text{Co}_2\text{O}_8$ ($\text{AE} = \text{Ca, Sr}$) Tj ETQq1	2.5	7
54	Tunable semimetallic state in compressive-strained Sr_3O_3 films revealed by transport behavior. Physical Review B, 2015, 91, .	3.2	59

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55	Strong correlation of the growth mode and electrical properties of BiCuSeO single crystals with growth temperature. CrystEngComm, 2015, 17, 6136-6141.	2.6	17
56	Lattice dynamics of $K_{1-x}RhO_2$ single crystals. AIP Advances, 2015, 5, .	1.3	11
57	Crystal growth, structure, and dielectric properties of layered cobaltates $La_{2-x}Sr_xCoO_4$ ($x=0.4, 0.5$). Tj ETQq1 1 0,784314 rgBT /Over	5.2	8
58	Electrical, magnetic, and magneto-electrical properties in quasi-two-dimensional $K_{0.58}RhO_2$ single crystals doped with rare-earth elements. Applied Physics Letters, 2014, 105, 062408.	3.3	6
59	Growth, structure and physical properties of gadolinium doped $Sr_{2-x}Ir_{4-x}O_{14}$ single crystal. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2777-2781.	2.1	8
60	High temperature solution growth, chemical depotassiation and growth mechanism of K_xRhO_2 crystals. CrystEngComm, 2013, 15, 5050.	2.6	15
61	Metal-insulator transition in $SrIrO_3$ with strong spin-orbit interaction. Journal of Physics Condensed Matter, 2013, 25, 125604.	1.8	48
62	Quantitative control of Fe/Mo anti-site defect and its effects on the properties of Sr_2FeMoO_6 . CrystEngComm, 2013, 15, 4601.	2.6	15
63	Intrinsically modified thermoelectric performance of alkaline-earth isovalently substituted $[Bi_{2-x}Ae_x]_2[CoO_2]_y$ single crystals. Journal of Applied Physics, 2013, 114, .	2.5	52
64	Observing electronic structures on <i>in situ</i> grown topological insulator thin films. Physica Status Solidi - Rapid Research Letters, 2013, 7, 130-132.	2.4	10
65	Significant ferrimagnetisms observed in superlattice composed of antiferromagnetic $LaFeO_3$ and $YMnO_3$. Applied Physics Letters, 2013, 102, 042403.	3.3	8
66	Magnetic and electrical transport properties of $Pb_{1-x}La_xTi_{1-x}Mn_xO_3$ ceramics. AIP Advances, 2012, 2, .	1.3	1
67	Structure and physical properties of $K_{0.63}RhO_2$ single crystals. AIP Advances, 2012, 2, .	1.3	15
68	Microstructure and magnetic properties of a novel 10-H hexagonal perovskite nanosheet in a $Bi-Fe-Cr-O$ system. RSC Advances, 2012, 2, 5683.	3.6	2
69	Initial growth of $Bi_{4-x}LaTi_{3-x}FeO_{15}$ thin films on $SrTiO_3$, MgO and YSZ substrates. Crystal Research and Technology, 2012, 47, 663-670.	1.3	0