Mingyu Hu

List of Publications by Year in descending order

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30	914	18	30
papers	citations	h-index	g-index
30	30	30	1084
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Enhanced thermoelectric performance in inorganic CsSnI3 perovskite by doping with PbI2. Materials Letters, 2022, 308, 131127.	2.6	8
2	Antioxidative solution processing yields exceptional Sn(II) stability for sub-1.4 eV bandgap inorganic perovskite solar cells. Journal of Energy Chemistry, 2022, , .	12.9	8
3	Origins of high fracture toughness and glassâ€like thermal conductivity in Zr–Ta–O composites. Journal of the American Ceramic Society, 2022, 105, 6508-6516.	3.8	4
4	Features of crystal structures and thermoâ€mechanical properties of weberites RE ₃ NbO ₇ (RE=La, Nd, Sm, Eu, Gd) ceramics. Journal of the American Ceramic Society, 2021, 104, 404-412.	3.8	22
5	Achieved limit thermal conductivity and enhancements of mechanical properties in fluorite RE3NbO7 via entropy engineering. Applied Physics Letters, $2021,118,.$	3.3	19
6	High-performance methylammonium-free ideal-band-gap perovskite solar cells. Matter, 2021, 4, 1365-1376.	10.0	51
7	On the multiplying factor for the estimation of the average grain size in thin films. Scripta Materialia, 2021, 196, 113748.	5.2	4
8	Probing the mechanical properties of ordered and disordered Pt-Ir alloys by first-principles calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 405, 127424.	2.1	17
9	Multiphonon scattering mechanisms to limit thermal conductivity in weberite RE3NbO7: A case study of (La1-xGdx)3NbO7 ceramics. Ceramics International, 2021, 47, 23222-23233.	4.8	6
10	Sub-1.4eV bandgap inorganic perovskite solar cells with long-term stability. Nature Communications, 2020, 11, 151.	12.8	92
11	The effects of hydroxyl by water addition on the photoluminescence of zero-dimensional perovskites Cs4PbBr6 nanocrystals. Journal of Luminescence, 2020, 221, 116986.	3.1	8
12	Mechanisms of exceptional grain growth and stability in formamidinium lead triiodide thin films for perovskite solar cells. Acta Materialia, 2020, 193, 10-18.	7.9	27
13	Investigation of the thermophysical properties of (Y1-xYbx)TaO4 ceramics. Journal of the European Ceramic Society, 2020, 40, 3111-3121.	5.7	18
14	Mechanical and thermal properties of RETaO4 (RE = Yb, Lu, Sc) ceramics with monoclinic-prime phase. Journal of Materials Science and Technology, 2020, 52, 20-28.	10.7	40
15	Electron-beam-induced cracking in organic-inorganic halide perovskite thin films. Scripta Materialia, 2020, 187, 88-92.	5.2	16
16	Investigation on the stability, electronic, optical, and mechanical properties of novel calcium carbonate hydrates via firstâ€principles calculations. International Journal of Quantum Chemistry, 2020, 120, e26219.	2.0	8
17	Effect of Grain Size on the Fracture Behavior of Organic-Inorganic Halide Perovskite Thin Films for Solar Cells. Scripta Materialia, 2020, 185, 47-50.	5. 2	32
18	Enhanced Thermoelectric Performance in Lead-Free Inorganic CsSn _{1<i>a€"x</i>} Ge _{<i>x</i>} I ₃ Perovskite Semiconductors. Journal of Physical Chemistry C, 2020, 124, 11749-11753.	3.1	45

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19	The effect of ZrO ₂ alloying on the microstructures and thermal properties of DyTaO ₄ for highâ€ŧemperature application. Journal of the American Ceramic Society, 2019, 102, 889-895.	3.8	16
20	Thermal expansion performance and intrinsic lattice thermal conductivity of ferroelastic RETaO ₄ ceramics. Journal of the American Ceramic Society, 2019, 102, 4809-4821.	3.8	88
21	Theoretical and experimental investigations of mechanical properties for polymorphous YTaO ₄ ceramics. Journal of the American Ceramic Society, 2019, 102, 7656-7664.	3.8	30
22	Thermo-mechanical properties of fluorite Yb3TaO7 and Yb3NbO7 ceramics with glass-like thermal conductivity. Journal of Alloys and Compounds, 2019, 788, 1231-1239.	5.5	34
23	Tailoring the anisotropic mechanical properties of hexagonal M7X3 (M=Fe, Cr, W, Mo; X=C, B) by multialloying. Acta Materialia, 2019, 169, 193-208.	7.9	74
24	A first-principles calculation of structural, mechanical, thermodynamic and electronic properties of binary Ni–Y compounds. RSC Advances, 2018, 8, 41575-41586.	3.6	17
25	Investigation on microstructures and thermo-physical properties of ferroelastic (Y1-xDyx)TaO4 ceramics. Materialia, 2018, 4, 478-486.	2.7	25
26	Ultralow Thermal Conductivity and Ultrahigh Thermal Expansion of Single-Crystal Organic–Inorganic Hybrid Perovskite CH ₃ NH ₃ PbX ₃ (X = Cl, Br, I). Journal of Physical Chemistry C, 2018, 122, 15973-15978.	3.1	93
27	The rattler effect of phonon propagation in defect-fluorite Dy3(Nb1-xTix)O7-x/2. Ceramics International, 2018, 44, 21998-22002.	4.8	9
28	Exploring accurate structure, composition and thermophysical properties of l̂· carbides in 17.90†wt% W-4.15†wt% Cr-1.10†wt% V-0.69†wt% C steel. Scripta Materialia, 2018, 154, 149-153.	5.2	18
29	Mechanical and Optical Properties of Cs $<$ sub $>$ 4 $<$ /sub $>$ BX $<$ sub $>$ 6 $<$ /sub $>$ (B = Pb, Sn; X = Cl, Br, I) Zero-Dimension Perovskites. Journal of Physical Chemistry C, 2017, 121, 27053-27058.	3.1	61
30	Elaborating the phases and mechanical properties of multiphase alloy: Experimental two-dimensional mapping combined with theoretical calculations. Materials Characterization, 2017, 134, 347-353.	4.4	24