

Yixiu Luo

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Vibrational hierarchy leads to dual-phonon transport in low thermal conductivity crystals. Nature Communications, 2020, 11, 2554.	12.8	79
2	A multicomponent \hat{I}^3 -type $(\text{Gd}_{1/6}\text{Tb}_{1/6}\text{Dy}_{1/6}\text{Tm}_{1/6}\text{Yb}_{1/6}\text{Lu}_{1/6})_2\text{Si}_2\text{O}_7$ disilicate with outstanding thermal stability. Materials Research Letters, 2020, 8, 424-430.	8.7	45
3	Theoretical exploration of the abnormal trend in lattice thermal conductivity for monosilicates RE_2SiO_5 ($\text{RE} = \text{Dy, Ho, Er, Tm, Yb and Lu}$). Journal of the European Ceramic Society, 2018, 38, 3539-3546.	5.7	49
4	Theoretical Predictions on Elastic Stiffness and Intrinsic Thermal Conductivities of Yttrium Silicates. Journal of the American Ceramic Society, 2014, 97, 945-951.	3.8	33
5	Giant Phonon Anharmonicity and Anomalous Pressure Dependence of Lattice Thermal Conductivity in $\text{Y}_2\text{Si}_2\text{O}_7$ silicate. Scientific Reports, 2016, 6, 29801.	3.3	24
6	Theoretical study on crystal structures, elastic stiffness, and intrinsic thermal conductivities of \hat{I}^2 -, \hat{I}^3 -, and \hat{I}^4 - $\text{Y}_2\text{Si}_2\text{O}_7$. Journal of Materials Research, 2015, 30, 493-502.	2.6	17
7	Pressure-induced low-lying phonon modes softening and enhanced thermal resistance in $\text{Y}_2\text{Si}_2\text{O}_7$. http://www.w3.org/1998/Math/MathML M^2gA	3.2	5
8	Hierarchical thermal transport mechanisms in $\text{Yb}_2\text{Si}_2\text{O}_7$ multifunctional thermal and environmental barrier coating (TEBC) material. Scripta Materialia, 2021, 194, 113704.	5.2	5
9	Accurate Exploration of the Intrinsic Lattice Thermal Conductivity of $\text{Si}_2\text{N}_2\text{O}$ by Combined Theoretical and Experimental Investigations. Journal of the American Ceramic Society, 2016, 99, 988-995.	3.8	3