

Yixiu Luo

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Hierarchical thermal transport mechanisms in Yb ₂ Si ₂ O ₇ multifunctional thermal and environmental barrier coating (TEBC) material. Scripta Materialia, 2021, 194, 113704.	5.2	5
2	A multicomponent $\hat{\Gamma}^3$ -type (Gd _{1/6} Tb _{1/6} Dy _{1/6} Tm _{1/6} Yb _{1/6} Lu _{1/6}) ₂ Si ₂ O ₇ disilicate with outstanding thermal stability. Materials Research Letters, 2020, 8, 424-430.	3.7	45
3	Vibrational hierarchy leads to dual-phonon transport in low thermal conductivity crystals. Nature Communications, 2020, 11, 2554.	12.8	79
4	Theoretical exploration of the abnormal trend in lattice thermal conductivity for monosilicates RE ₂ SiO ₅ (RE = Dy, Ho, Er, Tm, Yb and Lu). Journal of the European Ceramic Society, 2018, 38, 3539-3546.	5.7	49
5	Pressure induced low lying phonon modes softening and enhanced thermal resistance in $\hat{\Gamma}^2$ -type $Mg_2A_4Si_2O_{14}$ silicate. Journal of Materials Research, 2019, 30, 493-502.	3.2	5
6	Accurate Exploration of the Intrinsic Lattice Thermal Conductivity of Si ₂ N ₂ O by Combined Theoretical and Experimental Investigations. Journal of the American Ceramic Society, 2016, 99, 988-995.	3.8	3
7	Giant Phonon Anharmonicity and Anomalous Pressure Dependence of Lattice Thermal Conductivity in Y ₂ Si ₂ O ₇ silicate. Scientific Reports, 2016, 6, 29801.	3.3	24
8	Theoretical study on crystal structures, elastic stiffness, and intrinsic thermal conductivities of $\hat{\Gamma}^2$ -, $\hat{\Gamma}^3$ -, and $\hat{\Gamma}^4$ -Y ₂ Si ₂ O ₇ . Journal of Materials Research, 2015, 30, 493-502.	2.6	17
9	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