

Muzhang Huang

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

271
citations

933447

10
h-index

1199594

12
g-index

12
all docs

12
docs citations

12
times ranked

143
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-dense dislocations stabilized in high entropy oxide ceramics. Nature Communications, 2022, 13, .	12.8	50
2	Diffused Lattice Vibration and Ultralow Thermal Conductivity in the Binary Ln ³⁺ Nb ⁵⁺ O Oxide System. Advanced Materials, 2019, 31, e1808222.	21.0	49
3	Thermal and mechanical properties of ferroelastic RENbO ₄ (RE=Nd, Sm, Gd, Dy, Er, Yb) for thermal barrier coatings. Scripta Materialia, 2020, 180, 51-56.	5.2	45
4	Mechanical properties, oxygen barrier property, and chemical stability of RE ₃ NbO ₇ for thermal barrier coating. Journal of the American Ceramic Society, 2020, 103, 2302-2308.	3.8	25
5	Thermal and oxygen transport properties of complex pyrochlore RE ₂ InTaO ₇ for thermal barrier coating applications. Journal of the European Ceramic Society, 2020, 40, 6229-6235.	5.7	20
6	Opaque Gd ₂ Zr ₂ O ₇ /GdMnO ₃ thermal barrier materials for thermal radiation shielding: The effect of polaron excitation. Journal of Materials Science and Technology, 2022, 100, 67-74.	10.7	16
7	Oxygen ²⁻ vacancy ²⁻ mediated microstructure and thermophysical properties in Zr ₃ Ln ₄ O ₁₂ for high ²⁻ temperature applications. Journal of the American Ceramic Society, 2019, 102, 1961-1970.	3.8	14
8	Structure and Properties of Nonstoichiometric Y _{1-x} Nb _x O _{1.5+x} for Thermal Barrier Coatings. Journal of the European Ceramic Society, 2021, 41, 526-534.	5.7	14
9	Medium-entropy (Me,Ti) _{0.1} (Zr,Hf,Ce) _{0.9} O ₂ (Me = Y and Ta): Promising thermal barrier materials for high-temperature thermal radiation shielding and CMAS blocking. Journal of Materials Science and Technology, 2022, 123, 144-153.	10.7	11
10	Thermal conductivity modeling on highly disordered crystalline Y _{1-x} Nb _x O _{1.5+x} : Beyond the phonon scenario. Applied Physics Letters, 2021, 118, .	3.3	10
11	Y ₃ NbO ₇ transparent ceramic series for high refractive index optical lenses. Journal of the American Ceramic Society, 2021, 104, 5776-5783.	3.8	10
12	Repressing high ²⁻ temperature radiative heat transfer in thermal barrier coatings. Journal of the American Ceramic Society, 2022, 105, 3485-3497.	3.8	7