

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