

# Junwei Che

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Improved properties of scandia and yttria co-doped zirconia as a potential thermal barrier material for high temperature applications. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4502-4511.	5.7	54
2	Effect of point defects on the thermal conductivity of Sc <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> co-stabilized tetragonal ZrO <sub>2</sub> ceramic materials. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2389-2396.	5.7	22
3	Diffusion mechanism of oxygen ions in La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> /YSZ composite ceramics. <i>Journal of Alloys and Compounds</i> , 2019, 778, 522-531.	5.5	21
4	Sintering resistance of La <sub>2</sub> Ce <sub>2</sub> O <sub>7</sub> , La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> , and yttria stabilized zirconia ceramics. <i>Ceramics International</i> , 2021, 47, 4197-4205.	4.8	18
5	Outstanding sintering resistance in pyrochlore-type La <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> for thermal barrier coatings material. <i>Ceramics International</i> , 2021, 47, 6996-7004.	4.8	18
6	Structure, thermal expansion coefficient and phase stability of La <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> studied by molecular dynamic simulation and experiment. <i>Chemical Physics Letters</i> , 2018, 697, 48-52.	2.6	17
7	Phase, compositional, structural, and chemical stability of La <sub>2</sub> Ce <sub>2</sub> O <sub>7</sub> after high temperature heat treatment. <i>Ceramics International</i> , 2019, 45, 5030-5035.	4.8	16
8	Chemical compatibility between Ln <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> (Ln = Nd, Sm, Gd) and tetragonal yttria stabilized zirconia after annealing at high temperatures. <i>Materials Letters</i> , 2019, 234, 159-162.	2.6	13
9	Influence of powder states on the composition and phase stability of LZ/YSZ composite thermal barrier coatings. <i>Ceramics International</i> , 2018, 44, 20291-20298.	4.8	11
10	Effect of Rare Earth Elements on Stability and Sintering Resistance of Tetragonal Zirconia for Advanced Thermal Barrier Coatings. <i>Crystals</i> , 2021, 11, 287.	2.2	10
11	Thermal transport property in pyrochlore-type and fluorite-type A <sub>2</sub> B <sub>2</sub> O <sub>7</sub> oxides by molecular dynamics simulation. <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 122038.	4.8	9
12	Thermochemical compatibility between La <sub>2</sub> (Ce <sub>1-x</sub> Zr <sub>x</sub> ) <sub>2</sub> O <sub>7</sub> and 4 mol% Y <sub>2</sub> O <sub>3</sub> stabilized zirconia after high temperature heat treatment. <i>Ceramics International</i> , 2020, 46, 4142-4147.	4.8	6
13	Ultralow oxygen ion diffusivity in pyrochlore-type La <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> . <i>Journal of Materials Science and Technology</i> , 2022, 102, 174-185.	10.7	5
14	Effect of yttria on thermal transport and vibrational modes in yttria-stabilized hafnia. <i>Ceramics International</i> , 2022, 48, 31705-31713.	4.8	4
15	The effects of interface layer in LZ/YSZ coupled system during thermal transportation at elevated temperatures: A molecular dynamics simulation study. <i>Chemical Physics Letters</i> , 2020, 755, 137788.	2.6	1
16	Porous effects on heat transfer and ions distribution in YSZ using molecular dynamics simulation. <i>Chemical Physics Letters</i> , 2020, 747, 137339.	2.6	1
17	On the microscopic view of the low thermal conductivity of buckling two-dimensional materials from molecular dynamics. <i>Chemical Physics Letters</i> , 2021, 780, 138954.	2.6	0