

# Di Zhao

## List of Publications by Year in descending order

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20  
papers

282  
citations

933447

10  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

94  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct formation of Al <sub>2</sub> O <sub>3</sub> /GdAlO <sub>3</sub> /ZrO <sub>2</sub> ternary eutectic ceramics by selective laser melting: Microstructure evolutions. <i>Journal of the European Ceramic Society</i> , 2018, 38, 5144-5152.	5.7	43
2	One-step additive manufacturing and microstructure evolution of melt-grown Al <sub>2</sub> O <sub>3</sub> /GdAlO <sub>3</sub> /ZrO <sub>2</sub> eutectic ceramics by laser directed energy deposition. <i>Journal of the European Ceramic Society</i> , 2021, 41, 3547-3558.	5.7	32
3	Effect of scanning speed on the solidification process of Al <sub>2</sub> O <sub>3</sub> /GdAlO <sub>3</sub> /ZrO <sub>2</sub> eutectic ceramics in a single track by selective laser melting. <i>Ceramics International</i> , 2019, 45, 17252-17257.	4.8	29
4	Directly fabricated Al <sub>2</sub> O <sub>3</sub> /GdAlO <sub>3</sub> eutectic ceramic with large smooth surface by selective laser melting: Rapid solidification behavior and thermal field simulation. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1088-1101.	5.7	28
5	Distribution control and formation mechanism of gas inclusions in directionally solidified Al <sub>2</sub> O <sub>3</sub> -Er <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> -ZrO <sub>2</sub> ternary eutectic ceramic by laser floating zone melting. <i>Journal of Materials Science and Technology</i> , 2021, 66, 21-27.	10.7	25
6	Preparation of large-size Al <sub>2</sub> O <sub>3</sub> /GdAlO <sub>3</sub> /ZrO <sub>2</sub> ternary eutectic ceramic rod by laser directed energy deposition and its microstructure homogenization mechanism. <i>Journal of Materials Science and Technology</i> , 2021, 85, 218-223.	10.7	22
7	Microstructure tailoring and thermal stability of directionally solidified Al <sub>2</sub> O <sub>3</sub> /GdAlO <sub>3</sub> binary eutectic ceramics by laser floating zone melting. <i>Ceramics International</i> , 2018, 44, 7908-7916.	4.8	17
8	Ultrahigh-Strength Porous Ceramic Composites via a Simple Directional Solidification Process. <i>Nano Letters</i> , 2022, 22, 2405-2411.	9.1	13
9	Eutectic growth behavior with regular arrangement in the faceted Al <sub>2</sub> O <sub>3</sub> /Er <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> irregular eutectic system at low growth rate. <i>Scripta Materialia</i> , 2019, 162, 49-53.	5.2	12
10	A Review of Emerging Metallic System for High-Energy Beam Additive Manufacturing: Al-Co-Cr-Fe-Ni High Entropy Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 1407-1423.	2.9	12
11	Evolutions of rod diameter, molten zone and temperature gradient of oxide eutectic ceramics during laser floating zone melting. <i>Ceramics International</i> , 2020, 46, 18750-18757.	4.8	11
12	Highly enhanced aging resistance of rapidly solidified zirconia toughened alumina bioceramics with refined eutectic microstructure. <i>Journal of the European Ceramic Society</i> , 2020, 40, 2497-2503.	5.7	7
13	Halo formation in directionally solidified Al <sub>2</sub> O <sub>3</sub> -Er <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> off-eutectic in situ composite ceramics. <i>Materials Characterization</i> , 2019, 150, 31-37.	4.4	6
14	Effect of an abrupt change in pulling rate on microstructures of directionally solidified Al <sub>2</sub> O <sub>3</sub> -Er <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> eutectic and off-eutectic composite ceramics. <i>Ceramics International</i> , 2019, 45, 6632-6638.	4.8	6
15	Formation mechanism and controlling strategy of lamellar structure in 3D printed alumina ceramics by digital light processing. <i>Additive Manufacturing</i> , 2022, 52, 102650.	3.0	5
16	Densification and microstructural evolution of bulk Al <sub>2</sub> O <sub>3</sub> -Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> (YAG) eutectic ceramic fabricated by spark plasma sintering. <i>Ceramics International</i> , 2019, 45, 12337-12343.	4.8	4
17	Insights into high thermal stability of laser additively manufactured Al <sub>2</sub> O <sub>3</sub> /GdAlO <sub>3</sub> /ZrO <sub>2</sub> eutectic ceramics under high temperatures. <i>Additive Manufacturing</i> , 2021, 48, 102425.	3.0	4
18	Research Progress on Ultrahigh Temperature Oxide Eutectic Ceramics by Laser Additive Manufacturing. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2022, 37, 255.	1.3	3

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19	Collaborative enhancement of luminous efficacy and fracture toughness based on interface design of Al <sub>2</sub> O <sub>3</sub> /YAG:Ce <sup>3+</sup> eutectic phosphor ceramic grown by laser floating zone melting. <i>Ceramics International</i> , 2022, 48, 10144-10154.	4.8	3
20	Research progress on microstructure and property regulation of ultra-high temperature oxide eutectic ceramics by high gradient directional solidification technology. <i>Xibei Gongye Daxue Xuebao</i> /Journal of Northwestern Polytechnical University, 2022, 40, 229-242.	0.5	0