

Fu-Zhi Dai

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

560
citations

840776

11
h-index

996975

15
g-index

15
all docs

15
docs citations

15
times ranked

393
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation and properties of porous Al_5BO_9 for high-temperature wave-transparent and thermal insulating applications. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 866-875.	2.1	6
2	Electromagnetic wave absorbing properties of Cr_2AlB_2 powders and the effect of high-temperature oxidation. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2213-2224.	3.8	15
3	Theoretical investigation on the stability, mechanical and thermal properties of the newly discovered MAB phase Cr_4AlB_4 . <i>Journal of Materials Science and Technology</i> , 2020, 39, 161-166.	10.7	13
4	Oxidation behavior and thermal stability of Cr_2AlB_2 powders. <i>Corrosion Science</i> , 2020, 176, 108941.	6.6	23
5	Mechanical and thermal properties of light weight boron-mullite Al_5BO_9 . <i>Journal of the American Ceramic Society</i> , 2020, 103, 5939-5951.	3.8	11
6	Strategy to design high performance TiB ₂ -based materials: Strengthen grain boundaries by solid solute segregation. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3311-3320.	3.8	10
7	Phase pure and well crystalline Cr_2AlB_2 : A key precursor for two-dimensional CrB. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1593-1600.	10.7	84
8	$\text{M}_2\text{M}'\text{AlB}_4$ (M = Mn, Fe, Co, M' = Cr, Mo, W): Theoretical predicted ordered MAB phases with Cr_3AlB_4 crystal structure. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1432-1438.	10.7	17
9	Crystal structure of Cr_4AlB_4 : A new MAB phase compound discovered in Cr-Al-B system. <i>Journal of Materials Science and Technology</i> , 2019, 35, 530-534.	10.7	66
10	First demonstration of possible two-dimensional MBene CrB derived from MAB phase Cr_2AlB_2 . <i>Journal of Materials Science and Technology</i> , 2018, 34, 2022-2026.	10.7	127
11	First principles investigation on mechanical and thermal properties of Ti_2AlB_4 and Ti_2YAlB_4 ultra-high temperature ceramics. <i>Journal of the American Ceramic Society</i> , 2018, 101, 5694-5704.	3.8	12
12	Segregation of solute atoms (Y, Nb, Ta, Mo and W) in ZrB_2 grain boundaries and their effects on grain boundary strengths: A first-principles investigation. <i>Acta Materialia</i> , 2017, 127, 312-318.	7.9	52
13	Electrical conductive and damage-tolerant nanolaminated MAB phases Cr_2AlB_2 , Cr_3AlB_4 and Cr_4AlB_6 . <i>Materials Research Letters</i> , 2017, 5, 440-448.	8.7	78
14	Easily tiltable B-Al-B linear chain: The origin of unusual mechanical properties of nanolaminated MAB phases (CrB_2) _n CrAl. <i>Journal of Alloys and Compounds</i> , 2017, 723, 462-466.	5.5	22
15	Effects of transition metal (TM = Zr, Hf, Nb, Ta, Mo, W) elements on the shear properties of TM_2B_2 : A first-principles investigation. <i>Computational Materials Science</i> , 2016, 117, 266-269.	3.0	24