Fu-Zhi Dai

List of Publications by Year
in descending order

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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	First demonstration of possible two-dimensional MBene CrB derived from MAB phase Cr2AlB2. Journal of Materials Science and Technology, 2018, 34, 2022-2026.	10.7	127
2	Phase pure and well crystalline Cr2AlB2: A key precursor for two-dimensional CrB. Journal of Materials Science and Technology, 2019, 35, 1593-1600.	10.7	84
3	Electrical conductive and damage-tolerant nanolaminated MAB phases Cr₂AlB₂, Cr₃AlB₄ and Cr₄AlB₆. Materials Research Letters, 2017, 5, 440-448.	8.7	78
4	Crystal structure of Cr4AlB4: A new MAB phase compound discovered in Cr-Al-B system. Journal of Materials Science and Technology, 2019, 35, 530-534.	10.7	66
5	Segregation of solute atoms (Y, Nb, Ta, Mo and W) in ZrB2 grain boundaries and their effects on grain boundary strengths: A first-principles investigation. Acta Materialia, 2017, 127, 312-318.	7.9	52
6	Effects of transition metal (TM = Zr, Hf, Nb, Ta, Mo, W) elements on the shear properties of TMB2s: A first-principles investigation. Computational Materials Science, 2016, 117, 266-269.	3.0	24
7	Oxidation behavior and thermal stability of Cr2AlB2 powders. Corrosion Science, 2020, 176, 108941.	6.6	23
8	Easily tiltable B Al B linear chain: The origin of unusual mechanical properties of nanolaminated MAB phases (CrB2)nCrAl. Journal of Alloys and Compounds, 2017, 723, 462-466.	5.5	22
9	M2M'AlB4 (M = Mn, Fe, Co, M' = Cr, Mo, W): Theoretical predicted ordered MAB phases with Cr3AlB4 crystal structure. Journal of Materials Science and Technology, 2019, 35, 1432-1438.	10.7	17
10	Electromagnetic wave absorbing properties of Cr 2 AlB 2 powders and the effect of highâ€temperature oxidation. Journal of the American Ceramic Society, 2021, 104, 2213-2224.	3.8	15
11	Theoretical investigation on the stability, mechanical and thermal properties of the newly discovered MAB phase Cr4AlB4. Journal of Materials Science and Technology, 2020, 39, 161-166.	10.7	13
12	First principles investigation on mechanical and thermal properties of Î±â€•and Î²â€YAlB4ultraâ€high temperature ceramics. Journal of the American Ceramic Society, 2018, 101, 5694-5704.	3.8	12
13	Mechanical and thermal properties of light weight boronâ€mullite Al₅BO₉. Journal of the American Ceramic Society, 2020, 103, 5939-5951.	3.8	11
14	Strategy to design high performance TiB 2 â€based materials: Strengthen grain boundaries by solid solute segregation. Journal of the American Ceramic Society, 2020, 103, 3311-3320.	3.8	10
15	Preparation and properties of porous Al₅BO₉ for highâ€temperature waveâ€transparent and thermal insulating applications. International Journal of Applied Ceramic Technology, 2022, 19, 866-875.	2.1	6