Sedigheh Bigdeli

List of Publications by Year
in descending order

11 papers	260 citations	1163117 8 h-index	1281871 11 g-index
11 all docs	11 docs citations	11 times ranked	179 citing authors

#	Article	IF	Citations
1	On the third-generation Calphad databases: An updated description of Mn. Physica Status Solidi (B): Basic Research, 2015, 252, 2199-2208.	1.5	52
2	New description of metastable hcp phase for unaries Fe and Mn: Coupling between first-principles calculations and CALPHAD modeling. Physica Status Solidi (B): Basic Research, 2016, 253, 1830-1836.	1.5	34
3	Thermodynamic evaluation of pure Co for the third generation of thermodynamic databases. Physica Status Solidi (B): Basic Research, 2017, 254, 1600231.	1.5	32
4	A New Description of Pure C in Developing the Third Generation of Calphad Databases. Journal of Phase Equilibria and Diffusion, 2018, 39, 832-840.	1.4	29
5	An insight into using DFT data for Calphad modeling of solid phases in the third generation of Calphad databases, a case study for Al. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 65, 79-85.	1.6	29
6	A thermodynamic assessment of the binary Fe-Mn system for the third generation of Calphad databases. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 64, 185-195.	1.6	26
7	High-temperature oxidation behaviour of AlxFeCrCoNi and AlTiVCr compositionally complex alloys. Npj Materials Degradation, 2020, 4, .	5.8	21
8	A method for handling the extrapolation of solid crystalline phases to temperatures far above their melting point. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 68, 101737.	1.6	19
9	Thermodynamic assessment of binary erythritol-xylitol phase diagram for phase change materials design. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2018, 60, 29-36.	1.6	8
10	Strategies for High-Temperature Corrosion Simulations of Fe-Based Alloys Using the Calphad Approach: Part I. Journal of Phase Equilibria and Diffusion, 2021, 42, 403-418.	1.4	7
11	A Generalized Approach Obeying the Third Law of Thermodynamics for the Expression of Lattice Stability and Compound Energy: A Case Study of Unary Aluminum. Journal of Phase Equilibria and Diffusion, 2018, 39, 519-531.	1.4	3