Xm Tao

List of Publications by Citations

25 papers	243 citations	8 h-index	15 g-index
26 ext. papers	315 ext. citations	3.6 avg, IF	3.1 L-index

#	Paper	IF	Citations
25	Phase stability of magnesium-rare earth binary systems from first-principles calculations. *Journal of Alloys and Compounds*, **2011**, 509, 6899-6907	5.7	47
24	Distinct green electroluminescence from lead-free CsCuBr halide micro-crosses. *Chemical Communications*, **2019**, 55, 4554-4557	5.8	33
23	Machine learning reveals the importance of the formation enthalpy and atom-size difference in forming phases of high entropy alloys. *Materials and Design*, **2020**, 193, 108835	8.1	29
22	Structure and luminescence properties of multicolor phosphors with excellent thermal stability based on a new phosphate Ba3In4(PO4)6. *Journal of Alloys and Compounds*, **2019**, 797, 775-785	5.7	20
21	Thermodynamic reassessment of Au□Cu□Sn ternary system. *Journal of Alloys and Compounds*, **2014**, 588, 449-460	5.7	17
20	Thermodynamic modeling of Au□Ce□Sn ternary system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2013**, 42, 38-50	1.9	14
19	Thermodynamic assessment of Au□Ho and Au□Tm binary systems. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2012**, 37, 87-93	1.9	8
18	Thermodynamic assessment of Au□La and Au□Er binary systems. *Journal of Alloys and Compounds*, **2011**, 509, 4439-4444	5.7	8
17	Structure, thermal stability and properties of Li3Sc(BO3)2. *Journal of Solid State Chemistry*, **2011**, 184, 115-122	3.3	8
16	Low-voltage multicolor electroluminescence from all-inorganic carbon dots/Si-heterostructured light-emitting diodes. *Journal of Materials Science*, **2019**, 54, 8492-8503	4.3	7
15	Thermodynamic description of the Mg□Eu binary system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2008**, 32, 462-465	1.9	7
14	Diffusional behaviors and mechanical properties of Cu□Zn system. *Journal of Alloys and Compounds*, **2020**, 812, 152141	5.7	7
13	Enhanced scintillation of Ba3In(B3O6)3 based on nitrogen doping. *Journal of Solid State Chemistry*, **2018**, 258, 351-357	3.3	7
12	First-principles calculations assisted thermodynamic assessment of the Pt□Ga□Ge ternary system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2009**, 33, 561-569	1.9	6
11	Thermodynamic modeling of Fe□Ti□Bi system assisted with key experiments. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2014**, 46, 34-41	1.9	5
10	Thermodynamic optimization of Co□Ge binary system. *Thermochimica Acta*, **2013**, 572, 94-100	2.9	5
9	Phase Stability and Mechanical Properties of Al□Fe□RE via First-Principle Calculations. *Materials*, **2019**, 12,	3.5	4

8	First-principles Calculation Assisted Thermodynamic Modeling of Ti-Co-Cu Ternary System. *Journal of Materials Science and Technology*, **2010**, 26, 317-326	9.1	4
7	Compositional screening of Zr-Nb-Mo alloys with CALPHAD-type model for promising bio-medical implants. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 196-206	1.9	3
6	The growth and release of helium bubbles near tungsten surface studied with molecular dynamics simulations. *Nuclear Instruments & Methods in Physics Research B*, **2019**, 455, 66-73	1.2	1
5	Suggest a new approach to fabricate AlFe2B2. *Computational Materials Science*, **2020**, 171, 109239	3.2	1
4	Molecular dynamics simulation of diffusion for Ni□r interface. *International Journal of Modern Physics B*, **2020**, 34, 2050217	1.1	1
3	Experimental investigation of phase equilibria in the Mg-rich corner of Mg-Nd-Sc system. *Materials Research Express*, **2021**, 8, 016502	1.7	1
2	Coexistence of multiple Weyl fermions and quantum anomalous Hall effect in 2D half-metallic Cr2NT2. *Materials Chemistry and Physics*, **2022**, 282, 125940	4.4	0
1	Interdiffusion behaviors and mechanical properties in BCC Zr-rich Zr□Nb□a system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2022**, 77, 102410	1.9	0