# Xm Tao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9002492/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 26<br>papers | 391<br>citations | 1039880<br>9<br>h-index | 794469<br>19<br>g-index |
| 26<br>all docs | 26<br>docs citations | 26<br>times ranked | 453<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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. | 3.3 | 68 |
| 2 | Phase stability of magnesium-rare earth binary systems from first-principles calculations. Journal of Alloys and Compounds, 2011, 509, 6899-6907. | 2.8 | 59 |
| 3 | Distinct green electroluminescence from lead-free CsCuBr<sub>2</sub> halide micro-crosses. Chemical Communications, 2019, 55, 4554-4557. | 2.2 | 52 |
| 4 | 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. | 2.8 | 29 |
| 5 | Diffusional behaviors and mechanical properties of Cuâ€“Zn system. Journal of Alloys and Compounds, 2020, 812, 152141. | 2.8 | 23 |
| 6 | Thermodynamic modeling of Auâ€“Ceâ€“Sn ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2013, 42, 38-50. | 0.7 | 20 |
| 7 | Thermodynamic reassessment of Auâ€“Cuâ€“Sn ternary system. Journal of Alloys and Compounds, 2014, 588, 449-460. | 2.8 | 19 |
| 8 | First-principles calculations assisted thermodynamic assessment of the Ptâ€“Gaâ€“Ge ternary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 561-569. | 0.7 | 9 |
| 9 | Thermodynamic assessment of Auâ€“La and Auâ€“Er binary systems. Journal of Alloys and Compounds, 2011, 509, 4439-4444. | 2.8 | 9 |
| 10 | Structure, thermal stability and properties of Li3Sc(BO3)2. Journal of Solid State Chemistry, 2011, 184, 115-122. | 1.4 | 9 |
| 11 | Thermodynamic assessment of Auâ€“Ho and Auâ€“Tm binary systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 37, 87-93. | 0.7 | 9 |
| 12 | Enhanced scintillation of Ba3In(B3O6)3 based on nitrogen doping. Journal of Solid State Chemistry, 2018, 258, 351-357. | 1.4 | 9 |
| 13 | Low-voltage multicolor electroluminescence from all-inorganic carbon dots/Si-heterostructured light-emitting diodes. Journal of Materials Science, 2019, 54, 8492-8503. | 1.7 | 9 |
| 14 | Suggest a new approach to fabricate AlFe2B2. Computational Materials Science, 2020, 171, 109239. | 1.4 | 9 |
| 15 | Thermodynamic description of the Mgâ€“Eu binary system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2008, 32, 462-465. | 0.7 | 8 |
| 16 | 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. | 0.7 | 7 |
| 17 | Interdiffusion behaviors and mechanical properties in BCC Zr-rich Zrâ€“Nbâ€“Ta system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2022, 77, 102410. | 0.7 | 7 |
| 18 | Thermodynamic optimization of Coâ€“Ge binary system. Thermochimica Acta, 2013, 572, 94-100. | 1.2 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Thermodynamic modeling of Feâ€“Tiâ€“Bi system assisted with key experiments. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2014, 46, 34-41. | 0.7 | 5 |
| 20 | Thermoelectric properties of 2D semiconducting Pt<sub>2</sub>CO<sub>2</sub>. Physica Scripta, 2022, 97, 085706. | 1.2 | 5 |
| 21 | First-principles Calculation Assisted Thermodynamic Modeling of Ti-Co-Cu Ternary System. Journal of Materials Science and Technology, 2010, 26, 317-326. | 5.6 | 4 |
| 22 | Phase Stability and Mechanical Properties of Al8Fe4RE via First-Principle Calculations. Materials, 2019, 12, 701. | 1.3 | 4 |
| 23 | Molecular dynamics simulation of diffusion for Niâ€“Zr interface. International Journal of Modern Physics B, 2020, 34, 2050217. | 1.0 | 4 |
| 24 | 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. | 0.6 | 3 |
| 25 | Experimental investigation of phase equilibria in the Mg-rich corner of Mg-Nd-Sc system. Materials Research Express, 2021, 8, 016502. | 0.8 | 3 |
| 26 | Coexistence of multiple Weyl fermions and quantum anomalous Hall effect in 2D half-metallic Cr2NT2. Materials Chemistry and Physics, 2022, 282, 125940. | 2.0 | 2 |