

Fangyu Guo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

876
citations

17
h-index

29
g-index

40
ext. papers

1,105
ext. citations

4.3
avg, IF

4.35
L-index

#	Paper	IF	Citations
39	Impact of oxygen content on the thermal stability of Ti-Al-O-N coatings based on computational and experimental studies. <i>Acta Materialia</i> , 2022 , 227, 117706	8.4	1
38	Interdiffusion behaviors and mechanical properties of Zr-X (X Nb, Ta, Hf) binary systems. <i>Journal of Alloys and Compounds</i> , 2022 , 910, 164910	5.7	0
37	Toward accurate electronic, optical, and vibrational properties of hexagonal Si, Ge, and Si _{1-x} Ge _x alloys from first-principle simulations. <i>Journal of Applied Physics</i> , 2021 , 129, 145701	2.5	3
36	Effects of Ce and La elements on interfacial bonding, thermal damage and mechanical performance of brazed diamonds with Ni-Cr filler alloy. <i>International Journal of Refractory Metals and Hard Materials</i> , 2021 , 98, 105571	4.1	4
35	Interdiffusion behaviors and mechanical properties of Zn-Cr system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021 , 74, 102308	1.9	1
34	Diffusional behaviors and mechanical properties of Ni-Zn system. <i>Journal of Alloys and Compounds</i> , 2021 , 881, 160581	5.7	3
33	Needle-shape precipitate formation in Al-Mg-Si alloy: Phase field simulation and experimental verification. <i>Computational Materials Science</i> , 2020 , 184, 109878	3.2	9
32	Machine learning reveals the importance of the formation enthalpy and atom-size difference in forming phases of high entropy alloys. <i>Materials and Design</i> , 2020 , 193, 108835	8.1	29
31	Diffusional behaviors and mechanical properties of Cu-Zn system. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152141	5.7	7
30	Impact of V, Hf and Si on oxidation processes in TiAlN: Insights from ab initio molecular dynamics. <i>Surface and Coatings Technology</i> , 2020 , 381, 125125	4.4	10
29	Quantified contribution of θ and θ' precipitates to the strengthening of an aged AlMgSi alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138776	5.3	35
28	Atomic scale investigation of the crystal structure and interfaces of the β' precipitate in Al-Mg-Si alloys. <i>Acta Materialia</i> , 2020 , 185, 193-203	8.4	31
27	Influence of Ru-addition on thermal decomposition and oxidation resistance of TiAlN coatings. <i>Surface and Coatings Technology</i> , 2020 , 401, 126234	4.4	8
26	Microstructure, mechanical properties and cutting performances of TiSiCN super-hard nanocomposite coatings deposited using CVD method under the guidance of thermodynamic calculations. <i>Surface and Coatings Technology</i> , 2019 , 378, 124956	4.4	9
25	Through-process modeling and experimental verification of titanium carbonitride coating prepared by moderate temperature chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2019 , 359, 278-288	4.4	3
24	Mechanical properties and oxidation resistance of chemically vapor deposited TiSiN nanocomposite coating with thermodynamically designed compositions. <i>International Journal of Refractory Metals and Hard Materials</i> , 2019 , 80, 30-39	4.1	12
23	Improved properties of TiAlN coating by combined Si-addition and multilayer architecture. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 909-916	5.7	25

22	Effect of coatings on thermal conductivity and tribological properties of aluminum foam/polyoxymethylene interpenetrating composites. <i>Journal of Materials Science</i> , 2019 , 54, 13135-13146	4.3	6
21	Enhanced hardness and age-hardening of TiAlN coatings through Ru-addition. <i>Scripta Materialia</i> , 2019 , 162, 382-386	5.6	15
20	Structural evolution of oxygen on the surface of TiAlN: Ab initio molecular dynamics simulations. <i>Applied Surface Science</i> , 2019 , 470, 520-525	6.7	8
19	An experimental study on the interdiffusion behaviors and mechanical properties of Ni-Zr system. <i>Journal of Alloys and Compounds</i> , 2018 , 752, 412-419	5.7	14
18	Thermal stability and oxidation resistance of V-alloyed TiAlN coatings. <i>Ceramics International</i> , 2018 , 44, 1705-1710	5.1	28
17	Thermodynamic descriptions of the Ag-X (X = S, As, Lu) systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018 , 62, 207-214	1.9	3
16	Interdiffusion behaviors and mechanical properties of Cu-Zr system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018 , 61, 92-97	1.9	14
15	Phase Equilibria of the Ternary Al-Cu-Zn Alloys on Al-Zn Rich Side. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 356-365	1	3
14	Influence of annealing on the microstructure and mechanical properties of MTCVD TiC _{0.79} N _{0.21} coating. <i>Vacuum</i> , 2018 , 148, 88-97	3.7	10
13	First-principles study of adsorption and diffusion of oxygen on surfaces of TiN, ZrN and HfN. <i>Applied Surface Science</i> , 2018 , 452, 457-462	6.7	20
12	Improving thermal stability of TiSiN nanocomposite coatings by multilayered epitaxial growth. <i>Surface and Coatings Technology</i> , 2017 , 321, 180-185	4.4	27
11	Thermal stability and oxidation resistance of sputtered Ti Al Cr N hard coatings. <i>Surface and Coatings Technology</i> , 2017 , 324, 48-56	4.4	52
10	Phase equilibria, thermodynamics and microstructure simulation of metastable spinodal decomposition in Ti _{1-x} Al _x N coatings. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017 , 56, 92-101	1.9	27
9	Influence of Hf on the structure, thermal stability and oxidation resistance of Ti-Al-N coatings. <i>Thin Solid Films</i> , 2014 , 565, 25-31	2.2	30
8	Effect of CrN addition on the structure, mechanical and thermal properties of Ti-Al-N coating. <i>Surface and Coatings Technology</i> , 2013 , 235, 506-512	4.4	42
7	Effect of Zr on structure and properties of TiAlN coatings with varied bias. <i>International Journal of Refractory Metals and Hard Materials</i> , 2013 , 38, 81-86	4.1	22
6	Thermal stability and oxidation resistance of Ti-Al-N coatings. <i>Surface and Coatings Technology</i> , 2012 , 206-318, 2954-2960	4.4	148
5	Thermodynamic description of the AlMgSi system using a new formulation for the temperature dependence of the excess Gibbs energy. <i>Thermochimica Acta</i> , 2012 , 527, 131-142	2.9	54

4	Experimental investigation and thermodynamic modeling of the Cu ₃ BiZn system with the refined description for the CuZn system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2011 , 35, 191-203	1.9	9
3	Machining performance of TiAlSiN coated inserts. <i>Surface and Coatings Technology</i> , 2010 , 205, 582-586	4.4	58
2	The influence of age-hardening on turning and milling performance of TiAlN coated inserts. <i>Surface and Coatings Technology</i> , 2008 , 202, 5158-5161	4.4	65
1	Enthalpies of formation for the AlCuNiZr quaternary alloys calculated via a combined approach of geometric model and Miedema theory. <i>Journal of Alloys and Compounds</i> , 2006 , 420, 175-181	5.7	31