

Guanglong Xu

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

632
citations

623734

14
h-index

677142

22
g-index

47
all docs

47
docs citations

47
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural strengthening and toughening mechanisms in Fe-containing Ti-6Al-4V: A comparison between homogenization and aging treated states. <i>Journal of Materials Science and Technology</i> , 2022, 99, 114-126.	10.7	23
2	Interdiffusion behaviors and mechanical properties in BCC Zr-rich Zr-Nb-Ta system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2022, 77, 102410.	1.6	7
3	Experimental investigation and thermodynamic description of Mg-Sc-Zn ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2022, 77, 102406.	1.6	4
4	Interdiffusion behaviors and mechanical properties of Zr-X (X Nb, Ta, Hf) binary systems. <i>Journal of Alloys and Compounds</i> , 2022, 910, 164910.	5.5	5
5	Mapping of microstructure features and micromechanical properties of Ti-xAl-yFe (x=0-6, y) Tj ETQq1 1 0.784314 rgBT /Overlook 18, 3526-3540.	5.8	2
6	Measurement of the diffusion coefficient in Mg-Sn and Mg-Sc binary alloys. <i>International Journal of Materials Research</i> , 2022, 113, 391-399.	0.3	0
7	Experimental diffusion research and assessment of diffusional mobility in HCP Mg-Al-Ga ternary alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2022, 78, 102437.	1.6	2
8	Dissecting functional degradation in NiTi shape memory alloys containing amorphous regions via atomistic simulations. <i>Acta Materialia</i> , 2021, 202, 331-349.	7.9	39
9	Diffusion behaviors and atomic mobilities in Mg-Sc hcp and bcc alloys: Investigation via single-phase and multi-phase diffusion couples. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021, 72, 102228.	1.6	7
10	Exploring the correlation between solvent diffusion and creep resistance of Mg-Ga HCP alloys from high throughput liquid-solid diffusion couple. <i>Materials and Design</i> , 2021, 197, 109243.	7.0	6
11	Experimental investigation of phase equilibria in the Mg-rich corner of Mg-Nd-Sc system. <i>Materials Research Express</i> , 2021, 8, 016502.	1.6	3
12	Assessment of Atomic Mobility for Diffusion in Ti-Al-Sn bcc Phase. <i>Journal of Phase Equilibria and Diffusion</i> , 2021, 42, 535-546.	1.4	0
13	Isochronal and isothermal phase transformation in β -acicular Ti-55531. <i>Journal of Materials Science</i> , 2020, 55, 3073-3091.	3.7	5
14	Improved fracture toughness by microalloying of Fe in Ti-6Al-4V. <i>Materials and Design</i> , 2020, 185, 108251.	7.0	51
15	Diffusion research in HCP Mg-Al-Sn ternary alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 68, 101710.	1.6	9
16	Correlation between Microstructure and Mechanical Properties of Heat-Treated Ti-6Al-4V with Fe Alloying. <i>Metals</i> , 2020, 10, 854.	2.3	8
17	Thermodynamic assessment of the Ti-Al-Zr system and atomic mobility of its bcc phase. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 70, 101801.	1.6	12
18	Assessment of diffusion mobility for bcc phase of Ti-Al-Ni ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 71, 102203.	1.6	10

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19	High-throughput extraction of the anisotropic interdiffusion coefficients in hcp Mg-Al alloys. <i>Journal of Alloys and Compounds</i> , 2019, 805, 237-246.	5.5	5
20	Isochronal Phase Transformation in Bimodal Ti-55531. <i>Metals</i> , 2019, 9, 790.	2.3	1
21	Diffusion Research in BCC Ti-Al-Zr Ternary Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2019, 40, 686-696.	1.4	8
22	Optimization of Low-Cost Ti-35421 Titanium Alloy: Phase Transformation, Bimodal Microstructure, and Combinatorial Mechanical Properties. <i>Materials</i> , 2019, 12, 2791.	2.9	5
23	Effects of Trace Erbium Addition on Microstructure and Mechanical Properties of Ti6Al4V-xEr Alloys. <i>Metals</i> , 2019, 9, 628.	2.3	10
24	Diffusivities and atomic mobilities in bcc Ti Nb Ta alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019, 65, 299-315.	1.6	11
25	Investigation on Ti-6Al-4V Microstructure Evolution in Selective Laser Melting. <i>Metals</i> , 2019, 9, 1270.	2.3	9
26	CALPHAD assessment of bio-oriented Ti-Zr-Sn system and experimental validation in Ti/Zr-rich alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019, 67, 101686.	1.6	12
27	Diffusivities and atomic mobilities in bcc Ti-Zr-Nb alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019, 64, 160-174.	1.6	17
28	Experimental investigation of phase equilibria in the Ti-Fe-Zr system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018, 61, 20-32.	1.6	17
29	Invited paper: Kinetic diffusion multiple: A high-throughput approach to screening the composition-microstructure-micromechanical properties relationships. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018, 61, 219-226.	1.6	6
30	Diffusivities and Atomic Mobilities in bcc Ti-Mo-Zr Alloys. <i>Materials</i> , 2018, 11, 1909.	2.9	20
31	Experimental Diffusion Research on BCC Ti-Al-Sn Ternary Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2018, 39, 724-730.	1.4	10
32	Experimental Diffusion Research on BCC Ti-Mn Binary and Ti-Al-Mn Ternary Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2018, 39, 702-713.	1.4	11
33	Assessment of atomic mobility for BCC Ti-Mn and Ti-Al-Mn alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018, 62, 141-147.	1.6	12
34	Diffusion and atomic mobility of BCC Ti-Al-Nb alloys: Experimental determination and computational modeling. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018, 62, 83-91.	1.6	16
35	Effect of β morphology on the diffusional $\beta \rightarrow \beta'$ transformation in Ti-55531 during continuous heating: Dissection by dilatometer test, microstructure observation and calculation. <i>Journal of Alloys and Compounds</i> , 2017, 702, 352-365.	5.5	44
36	Isothermal kinetics of $\beta \rightarrow \beta'$ transformation in Ti-55531 alloy influenced by phase composition and microstructure. <i>Materials and Design</i> , 2017, 130, 302-316.	7.0	25

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37	Mapping of Diffusion and Nanohardness Properties of Fcc Co-Al-V Alloys Using Ternary Diffusion Couples. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4286-4296.	2.2	5
38	Thermodynamic database of multi-component Mg alloys and its application to solidification and heat treatment. Journal of Magnesium and Alloys, 2016, 4, 249-264.	11.9	33
39	Exploring the Phase Transformation in \hat{I}^2 -Quenched Ti-55531 Alloy During Continuous Heating via Dilatometric Measurement, Microstructure Characterization, and Diffusion Analysis. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5383-5394.	2.2	23
40	The formation mechanism of eutectic microstructures in NiAl-Cr composites. Physical Chemistry Chemical Physics, 2016, 18, 19773-19786.	2.8	26
41	Exploring phase stability, electronic and mechanical properties of Ce-Pb intermetallic compounds using first-principles calculations. Journal of Solid State Chemistry, 2016, 237, 385-393.	2.9	11
42	Landau modeling of dynamical nucleation of martensite at grain boundaries under local stress. Computational Materials Science, 2016, 118, 103-111.	3.0	12
43	Investigation of thermophysical, electronic and lattice dynamic properties for CaX_2Si_2 (X=Ni,Zn,Cu,Ag,Au) via first-principles calculations. Computational Materials Science, 2015, 102, 167-173.	3.0	7
44	Experimental and phenomenological investigations of diffusion in Co-Al-W alloys. Scripta Materialia, 2015, 106, 13-16.	5.2	19
45	Diffusion Research in BCC Ti-Al-Mo Ternary Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 1647-1652.	2.2	44
46	Experimental Investigation and Thermodynamic Modeling for the Mg-Nd-Sr System. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5634-5641.	2.2	6
47	Phase equilibria in the Gd-Ni binary and Mg-Ni-Gd ternary systems. International Journal of Materials Research, 2012, 103, 1179-1187.	0.3	14