

Hongchao Kou

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

896
citations

430874

18
h-index

477307

29
g-index

42
all docs

42
docs citations

42
times ranked

612
citing authors

#	ARTICLE	IF	CITATIONS
1	β^2 to β' transformation strain associated with the precipitation of β' phase in a metastable β^2 titanium alloy. Journal of Materials Science, 2021, 56, 1685-1693.	3.7	15
2	The β' phase transformation during the low temperature aging and low rate heating process of metastable β^2 titanium alloys. Materials Chemistry and Physics, 2020, 239, 122125.	4.0	16
3	Texture evolution and the recrystallization behavior in a near β^2 titanium alloy Ti-7333 during the hot-rolling process. Materials Characterization, 2020, 159, 109999.	4.4	27
4	A brief review of data-driven ICME for intelligently discovering advanced structural metal materials: Insight into atomic and electronic building blocks. Journal of Materials Research, 2020, 35, 872-889.	2.6	17
5	β' -Assisted refinement of β' phase and its effect on the tensile properties of a near β^2 titanium alloy. Journal of Materials Science and Technology, 2020, 44, 24-30.	10.7	33
6	When a defect is a pathway to improve stability: a case study of the L12 Co3TM superlattice intrinsic stacking fault. Journal of Materials Science, 2019, 54, 13609-13618.	3.7	16
7	Interstitial triggered grain boundary embrittlement of Al-X (X=H, N and O). Computational Materials Science, 2019, 163, 241-247.	3.0	8
8	Dependence of mechanical properties on the microstructure characteristics of a near β^2 titanium alloy Ti-7333. Journal of Materials Science and Technology, 2019, 35, 48-54.	10.7	41
9	Insight into solid-solution strengthened bulk and stacking faults properties in Ti alloys: a comprehensive first-principles study. Journal of Materials Science, 2018, 53, 7493-7505.	3.7	17
10	Precipitation behavior of β' phase during aging treatment in a β^2 -quenched Ti-7333. Materials Characterization, 2018, 140, 275-280.	4.4	25
11	Kinetic Diffusion Couple for Mapping Microstructural and Mechanical Data on Ti-Al-Mo Titanium Alloys. Materials, 2018, 11, 1112.	2.9	6
12	In situ Observation of the Initial Stage of β' Lamella Formation in Ti48Al2Cr2Nb Alloy. Advanced Engineering Materials, 2017, 19, 1600670.	3.5	2
13	Composite structure of β' phase in metastable β^2 Ti alloys induced by lattice strain during β^2 to β' phase transformation. Acta Materialia, 2017, 132, 307-326.	7.9	80
14	The origin of striation in the metastable β^2 phase of titanium alloys observed by transmission electron microscopy. Journal of Applied Crystallography, 2017, 50, 795-804.	4.5	20
15	Characteristics of a hot-rolled near β^2 titanium alloy Ti-7333. Materials Characterization, 2017, 129, 135-142.	4.4	35
16	Microstructure and hydrogen storage properties of Mg-Ni-Ce alloys with a long-period stacking ordered phase. Journal of Power Sources, 2017, 338, 91-102.	7.8	62
17	Precipitation of β' phase and its morphological evolution during continuous heating in a near β^2 titanium alloy Ti-7333. Materials Characterization, 2017, 132, 199-204.	4.4	32
18	Phase precipitation behavior during isothermal deformation in β^2 -quenched near beta titanium alloy Ti-7333. Journal of Alloys and Compounds, 2016, 671, 381-388.	5.5	31

#	ARTICLE	IF	CITATIONS
19	Microstructure and mechanical property correlation and property optimization of a near β titanium alloy Ti-7333. <i>Journal of Alloys and Compounds</i> , 2016, 682, 517-524.	5.5	66
20	Non-isothermal synergetic catalytic effect of TiF ₃ and Nb ₂ O ₅ on dehydrogenation high-energy ball milled MgH ₂ . <i>Materials Chemistry and Physics</i> , 2016, 183, 65-75.	4.0	21
21	Microstructure and electrochemical hydrogenation/dehydrogenation performance of melt-spun La-doped Mg ₂ Ni alloys. <i>Materials Characterization</i> , 2015, 106, 163-174.	4.4	29
22	Interdiffusion in FCC Co-Al-Ti Ternary Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , 2015, 36, 127-135.	1.4	10
23	Microstructure Characterization and Mechanical Properties of In Situ Synthesized Ti ₂ Al ₄₈ C ₂ N ₂ b Composites. <i>Advanced Engineering Materials</i> , 2014, 16, 507-510.	3.5	17
24	Hydrogen desorption performance of high-energy ball milled Mg ₂ Ni ₄ catalyzed by multi-walled carbon nanotubes coupling with TiF ₃ . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19672-19681.	7.1	51
25	Diffusion Research in BCC Ti-Al-Mo Ternary Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 1647-1652.	2.2	44
26	Precipitation of nanosized DO ₂₂ superlattice with high thermal stability in an Ni-Cr-W superalloy. <i>Scripta Materialia</i> , 2014, 76, 49-52.	5.2	18
27	Effect of strain rate on impact response and β transformation of quenched Zr-Nb alloys. <i>Materials Characterization</i> , 2013, 84, 10-15.	4.4	5
28	Hydrogenation behavior of high-energy ball milled amorphous Mg ₂ Ni catalyzed by multi-walled carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16168-16176.	7.1	21
29	Evolution of the secondary β phase morphologies during isothermal heat treatment in Ti-7333 alloy. <i>Journal of Alloys and Compounds</i> , 2013, 577, 516-522.	5.5	53
30	On the amorphization behavior and hydrogenation performance of high-energy ball-milled Mg ₂ Ni alloys. <i>Materials Characterization</i> , 2013, 80, 21-27.	4.4	24
31	A phase-field approach to athermal β transformation. <i>Computational Materials Science</i> , 2012, 53, 187-193.	3.0	21
32	Modeling of Incommensurate β Structure in the Zr-Nb Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 2581-2586.	2.2	2
33	Macrosegregation Behavior of Ti-10V-2Fe-3Al Alloy During Vacuum Consumable Arc Remelting Process. <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 65-70.	2.5	6
34	Finite element simulation on the deep drawing of titanium thin-walled surface part. <i>Rare Metals</i> , 2010, 29, 108-113.	7.1	6
35	Microstructure Changes in Zr-Based Metallic Glass Induced by Ion Milling. <i>Rare Metal Materials and Engineering</i> , 2010, 39, 1693-1696.	0.8	4
36	Deposition of Fe-based metallic glass coatings by Air Plasma Spraying process. <i>International Journal of Surface Science and Engineering</i> , 2010, 4, 288.	0.4	1

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37	Microstructure, phase and microhardness distribution of laser-deposited Ni-based amorphous coating. International Journal of Surface Science and Engineering, 2010, 4, 296.	0.4	10
38	Fabrication and Microstructure Characteristic of YBCO Bulk by Directional Top-Seeded Power Melting Process. Rare Metal Materials and Engineering, 2008, 37, 1893-1897.	0.8	0
39	Effects of Ta addition on the microstructure and mechanical properties of Ti ₄₀ Zr ₂₅ Ni ₈ Cu ₉ Be ₁₈ amorphous alloy. International Journal of Minerals, Metallurgy, and Materials, 2007, 14, 31-35.	0.2	3