Liang Cheng

List of Publications by Year in descending order

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LIANC CHENC

#	Article	lF	CITATIONS
1	Deformation and dynamic recrystallization behavior of a high Nb containing TiAl alloy. Journal of Alloys and Compounds, 2013, 552, 363-369.	5.5	120
2	Deformation behavior of hot-rolled IN718 superalloy under plane strain compression at elevated temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 24-30.	5.6	65
3	Flow characteristics and constitutive modeling for elevated temperature deformation of a high Nb containing TiAl alloy. Intermetallics, 2014, 49, 23-28.	3.9	65
4	Hot forging design and microstructure evolution of a high Nb containing TiAl alloy. Intermetallics, 2015, 58, 7-14.	3.9	62
5	Superplastic deformation mechanisms of high Nb containing TiAl alloy with (α2Â+Âγ) microstructure. Intermetallics, 2016, 75, 62-71.	3.9	44
6	Effect of β/B2 phase on cavitation behavior during superplastic deformation of TiAl alloys. Journal of Alloys Alloys and Compounds, 2017, 693, 749-759.	5.5	26
7	General features of high temperature deformation kinetics for γ-TiAl-based alloys with DP/NG microstructures: Part I. A survey of mechanical data and development of unified rate-equations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 389-401.	5.6	24
8	Characteristics of metadynamic recrystallization of a high Nb containing TiAl alloy. Materials Letters, 2013, 92, 430-432.	2.6	22
9	Phase precipitation behavior of a quenched β-solidifying TiAl alloy with a fully-B2 microstructure during annealing at 800°C. Journal of Alloys and Compounds, 2020, 812, 152118.	5.5	20
10	Superplastic deformation mechanism of a γ-TiAl alloy with coarse and bimodal grain structure. Materials Letters, 2017, 194, 58-61.	2.6	19
11	Characterization of a New Microstructure in a β-Solidifying TiAl Alloy after Air-Cooling from a β Phase Field and Subsequent Tempering. Metals, 2018, 8, 156.	2.3	14
12	The Formation and Evolution of Shear Bands in Plane Strain Compressed Nickel-Base Superalloy. Metals, 2018, 8, 141.	2.3	13
13	Quantitative evaluation of the lamellar kinking&rotation on the flow softening of γ-TiAl-based alloys at elevated temperatures. Materials Letters, 2021, 290, 129458.	2.6	11
14	Crystallography of phase transformation during quenching from β phase field of a V-rich TiAl alloy. Journal of Materials Science, 2019, 54, 1844-1856.	3.7	8
15	Hot tensile behavior of a TiAl alloy with a (βO +Âγ) microduplex microstructure prepared simply by heat treatments. Journal of Alloys and Compounds, 2021, 875, 160039.	5.5	8
16	Flow Stress Prediction of High-Nb TiAl Alloys under High Temperature Deformation. Advanced Materials Research, 0, 510, 723-728.	0.3	7
17	Microstructure refinement of Ti-40Al-8Nb alloys via the decomposition of the metastable B2 phase at 1000°C. Journal of Alloys and Compounds, 2020, 838, 155575.	5.5	7
18	Effect of pre-deformation in the β phase field on the microstructure and texture of the α phase in a boron-added β-solidifying TiAl alloy. Journal of Alloys and Compounds, 2018, 742, 304-311.	5.5	6

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#	Article	IF	CITATIONS
19	Kinetic Diffusion Couple for Mapping Microstructural and Mechanical Data on Ti–Al–Mo Titanium Alloys. Materials, 2018, 11, 1112.	2.9	6
20	Deformation Behavior of a β-Solidifying TiAl Alloy within β Phase Field and Its Effect on the β→α Transformation. Metals, 2018, 8, 605.	2.3	5
21	Responses of microstructure and texture of \hat{I}_{\pm} phase to boron addition in Ti-40Al-8Nb-xB alloys modified by hot deformation above the \hat{I}^2 transus. Materials Characterization, 2019, 153, 148-156.	4.4	3
22	Effect of hot-forging on beta phase transformation of a high niobium containing titanium aluminide alloy. International Journal of Modern Physics B, 2015, 29, 1540009.	2.0	2
23	Experimental Evidence of Precipitation of All 12 Variants in a Single Î ² Grain in Titanium Alloys. Advances in Materials Science and Engineering, 2018, 2018, 1-7.	1.8	2
24	Phase transformation behavior of Ti–40Al–8Nb alloys with a submicron (ω0+γ) microstructure during tempering at 1000°C. Journal of Materials Research and Technology, 2022, 18, 315-324.	5.8	2
25	Hot Deformation Behavior of a Ti-40Al-10V Alloy with Quenching-Tempering Microstructure. Materials, 2018, 11, 872.	2.9	Ο