

Liang Cheng

List of Publications by Year in descending order

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332
citing authors

#	ARTICLE	IF	CITATIONS
1	Deformation and dynamic recrystallization behavior of a high Nb containing TiAl alloy. Journal of Alloys and Compounds, 2013, 552, 363-369.	2.8	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.	2.6	65
3	Flow characteristics and constitutive modeling for elevated temperature deformation of a high Nb containing TiAl alloy. Intermetallics, 2014, 49, 23-28.	1.8	65
4	Hot forging design and microstructure evolution of a high Nb containing TiAl alloy. Intermetallics, 2015, 58, 7-14.	1.8	62
5	Superplastic deformation mechanisms of high Nb containing TiAl alloy with ($\hat{\alpha}2\hat{\alpha}3$) microstructure. Intermetallics, 2016, 75, 62-71.	1.8	44
6	Effect of $\hat{\alpha}2/\text{B}2$ phase on cavitation behavior during superplastic deformation of TiAl alloys. Journal of Alloys and Compounds, 2017, 693, 749-759.	2.8	26
7	General features of high temperature deformation kinetics for $\hat{\alpha}3$ -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.	2.6	24
8	Characteristics of metadynamic recrystallization of a high Nb containing TiAl alloy. Materials Letters, 2013, 92, 430-432.	1.3	22
9	Phase precipitation behavior of a quenched $\hat{\alpha}2$ -solidifying TiAl alloy with a fully-B2 microstructure during annealing at 800°C. Journal of Alloys and Compounds, 2020, 812, 152118.	2.8	20
10	Superplastic deformation mechanism of a $\hat{\alpha}3$ -TiAl alloy with coarse and bimodal grain structure. Materials Letters, 2017, 194, 58-61.	1.3	19
11	Characterization of a New Microstructure in a $\hat{\alpha}2$ -Solidifying TiAl Alloy after Air-Cooling from a $\hat{\alpha}2$ Phase Field and Subsequent Tempering. Metals, 2018, 8, 156.	1.0	14
12	The Formation and Evolution of Shear Bands in Plane Strain Compressed Nickel-Base Superalloy. Metals, 2018, 8, 141.	1.0	13
13	Quantitative evaluation of the lamellar kinking&rotation on the flow softening of $\hat{\alpha}3$ -TiAl-based alloys at elevated temperatures. Materials Letters, 2021, 290, 129458.	1.3	11
14	Crystallography of phase transformation during quenching from $\hat{\alpha}2$ phase field of a V-rich TiAl alloy. Journal of Materials Science, 2019, 54, 1844-1856.	1.7	8
15	Hot tensile behavior of a TiAl alloy with a ($\hat{\alpha}2 + \hat{\alpha}3$) microduplex microstructure prepared simply by heat treatments. Journal of Alloys and Compounds, 2021, 875, 160039.	2.8	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.	2.8	7
18	Effect of pre-deformation in the $\hat{\alpha}2$ phase field on the microstructure and texture of the $\hat{\alpha}2$ phase in a boron-added $\hat{\alpha}2$ -solidifying TiAl alloy. Journal of Alloys and Compounds, 2018, 742, 304-311.	2.8	6

#	ARTICLE	IF	CITATIONS
19	Kinetic Diffusion Couple for Mapping Microstructural and Mechanical Data on Ti-4Al-8Nb Titanium Alloys. <i>Materials</i> , 2018, 11, 1112.	1.3	6
20	Deformation Behavior of a β -Solidifying TiAl Alloy within β Phase Field and Its Effect on the $\beta \rightarrow \alpha$ Transformation. <i>Metals</i> , 2018, 8, 605.	1.0	5
21	Responses of microstructure and texture of β phase to boron addition in Ti-40Al-8Nb-xB alloys modified by hot deformation above the β transus. <i>Materials Characterization</i> , 2019, 153, 148-156.	1.9	3
22	Effect of hot-forging on beta phase transformation of a high niobium containing titanium aluminide alloy. <i>International Journal of Modern Physics B</i> , 2015, 29, 1540009.	1.0	2
23	Experimental Evidence of Precipitation of All 12 Variants in a Single β Grain in Titanium Alloys. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-7.	1.0	2
24	Phase transformation behavior of Ti-40Al-8Nb alloys with a submicron (β) microstructure during tempering at 1000°C. <i>Journal of Materials Research and Technology</i> , 2022, 18, 315-324.	2.6	2
25	Hot Deformation Behavior of a Ti-40Al-10V Alloy with Quenching-Tempering Microstructure. <i>Materials</i> , 2018, 11, 872.	1.3	0