Liang Cheng

List of Publications by Year
in descending order

25 papers	561 citations	758635 12 h-index	642321 23 g-index
25 all docs	25 docs citations	25 times ranked	332 citing authors

#	Article	IF	Citations
1	Phase transformation behavior of Tiâ€“40Alâ€“8Nb alloys with a submicron (Ï‰0+Î³) microstructure during tempering at 1000ÂÂ°C. Journal of Materials Research and Technology, 2022, 18, 315-324.	2.6	2
2	Quantitative evaluation of the lamellar kinking&rotation on the flow softening of Î³-TiAl-based alloys at elevated temperatures. Materials Letters, 2021, 290, 129458.	1.3	11
3	Hot tensile behavior of a TiAl alloy with a (Î²0 +ÂÎ³) microduplex microstructure prepared simply by heat treatments. Journal of Alloys and Compounds, 2021, 875, 160039.	2.8	8
4	Phase precipitation behavior of a quenched Î²-solidifying TiAl alloy with a fully-B2 microstructure during annealing at 800Â°C. Journal of Alloys and Compounds, 2020, 812, 152118.	2.8	20
5	Microstructure refinement of Ti-40Al-8Nb alloys via the decomposition of the metastable B2 phase at 1000ÂÂ°C. Journal of Alloys and Compounds, 2020, 838, 155575.	2.8	7
6	Responses of microstructure and texture of Î± phase to boron addition in Ti-40Al-8Nb-xB alloys modified by hot deformation above the Î² transus. Materials Characterization, 2019, 153, 148-156.	1.9	3
7	Crystallography of phase transformation during quenching from Î² phase field of a V-rich TiAl alloy. Journal of Materials Science, 2019, 54, 1844-1856.	1.7	8
8	Effect of pre-deformation in the Î² phase field on the microstructure and texture of the Î± phase in a boron-added Î²-solidifying TiAl alloy. Journal of Alloys and Compounds, 2018, 742, 304-311.	2.8	6
9	Experimental Evidence of Precipitation of All 12 Variants in a Single Î² Grain in Titanium Alloys. Advances in Materials Science and Engineering, 2018, 2018, 1-7.	1.0	2
10	Deformation Behavior of a Î²-Solidifying TiAl Alloy within Î² Phase Field and Its Effect on the Î²â†'Î± Transformation. Metals, 2018, 8, 605.	1.0	5
11	Kinetic Diffusion Couple for Mapping Microstructural and Mechanical Data on Tiâ€“Alâ€“Mo Titanium Alloys. Materials, 2018, 11, 1112.	1.3	6
12	Hot Deformation Behavior of a Ti-40Al-10V Alloy with Quenching-Tempering Microstructure. Materials, 2018, 11, 872.	1.3	0
13	The Formation and Evolution of Shear Bands in Plane Strain Compressed Nickel-Base Superalloy. Metals, 2018, 8, 141.	1.0	13
14	Characterization of a New Microstructure in a Î²-Solidifying TiAl Alloy after Air-Cooling from a Î² Phase Field and Subsequent Tempering. Metals, 2018, 8, 156.	1.0	14
15	Superplastic deformation mechanism of a Î³-TiAl alloy with coarse and bimodal grain structure. Materials Letters, 2017, 194, 58-61.	1.3	19
16	Effect of Î²/B2 phase on cavitation behavior during superplastic deformation of TiAl alloys. Journal of Alloys and Compounds, 2017, 693, 749-759.	2.8	26
17	General features of high temperature deformation kinetics for Î³-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
18	Superplastic deformation mechanisms of high Nb containing TiAl alloy with (Î±2Â+ÂÎ³) microstructure. Intermetallics, 2016, 75, 62-71.	1.8	44

#	Article	IF	Citations
19	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.	1.0	2
20	Hot forging design and microstructure evolution of a high Nb containing TiAl alloy. Intermetallics, 2015, 58, 7-14.	1.8	62
21	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
22	Flow characteristics and constitutive modeling for elevated temperature deformation of a high Nb containing TiAl alloy. Intermetallics, 2014, 49, 23-28.	1.8	65
23	Deformation and dynamic recrystallization behavior of a high Nb containing TiAl alloy. Journal of Alloys and Compounds, 2013, 552, 363-369.	2.8	120
24	Characteristics of metadynamic recrystallization of a high Nb containing TiAl alloy. Materials Letters, 2013, 92, 430-432.	1.3	22
25	Flow Stress Prediction of High-Nb TiAl Alloys under High Temperature Deformation. Advanced Materials Research, 0, 510, 723-728.	0.3	7