

Jiao Luo

List of Publications by Year in descending order

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26
papers

340
citations

1163117

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docs citations

27
times ranked

224
citing authors

#	ARTICLE	IF	CITATIONS
1	Constitutive model for high temperature deformation of titanium alloys using internal state variables. <i>Mechanics of Materials</i> , 2010, 42, 157-165.	3.2	122
2	Collaborative behavior in β lamellae and β' phase evolution and its effect on the globularization of TC17 alloy. <i>Materials and Design</i> , 2018, 146, 152-162.	7.0	26
3	Modeling of constitutive relationships and microstructural variables of Ti-6.62Al-5.14Sn-1.82Zr alloy during high temperature deformation. <i>Materials Characterization</i> , 2008, 59, 1386-1394.	4.4	21
4	Microstructure and mechanical properties of heat-treated Ti-5Al-2Sn-2Zr-4Mo-4Cr. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 2893-2900.	4.2	19
5	Mechanisms of stress-induced martensitic transformation and transformation-induced plasticity in NiTi shape memory alloy related to superelastic stability. <i>Scripta Materialia</i> , 2022, 217, 114775.	5.2	18
6	Formation and evolution of new β grain boundary and its influence on globularization of β lamellae in TC17 alloy. <i>Journal of Alloys and Compounds</i> , 2020, 848, 156141.	5.5	17
7	Microstructural heterogeneity and texture of as-received, vacuum arc-cast, extruded, and re-extruded NiTi shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2017, 712, 494-509.	5.5	15
8	The evolution of dynamic recrystallization and recrystallization texture during isothermal compression of NiTi shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141424.	5.6	9
9	Thermomechanical coupling simulation and experimental study in the isothermal ECAP processing of Ti-6Al-4V alloy. <i>Rare Metals</i> , 2010, 29, 613-620.	7.1	8
10	Modeling of grain size in isothermal compression of Ti-6Al-4V alloy using fuzzy neural network. <i>Rare Metals</i> , 2011, 30, 555-564.	7.1	8
11	Variation effect of strain rate on microstructure in isothermal compression of Ti-6Al-4V alloy. <i>Rare Metals</i> , 2012, 31, 7-11.	7.1	8
12	The evolution and effects of second phase particles during hot extrusion and re-extrusion of a NiTi shape memory alloy. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1145-1151.	5.5	8
13	Microstructure evolution and its effect on flow stress of TC17 alloy during deformation in β - β' two-phase region. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 1430-1438.	4.2	8
14	Flow Behaviors and Processing Maps of NiTi Shape Memory Alloy with Microstructural Observations on Austenite Phase during Hot Compression. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 6931-6939.	2.5	7
15	Microstructure evolution in the high temperature compression of Ti-5.6Al-4.8Sn-2.0Zr alloy. <i>Rare Metals</i> , 2010, 29, 533-537.	7.1	6
16	3D finite element simulation of microstructure evolution in blade forging of Ti-6Al-4V alloy based on the internal state variable models. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 122-130.	4.9	6
17	Three-dimensional Numerical Simulation and Experimental Analysis of Austenite Grain Growth Behavior in Hot Forging Processes of 300M Steel Large Components. <i>Journal of Iron and Steel Research International</i> , 2016, 23, 1012-1019.	2.8	6
18	Formation of adiabatic shear band and deformation mechanisms during warm compression of Ti-6Al-4V alloy. <i>Rare Metals</i> , 2016, 35, 598-605.	7.1	5

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19	Prediction model for flow stress during isothermal compression in β -phase field of TC4 alloy. Rare Metals, 2018, 37, 369-375.	7.1	5
20	Quantitative analysis of globularization and modeling of TC17 alloy with basketweave microstructure. Transactions of Nonferrous Metals Society of China, 2022, 32, 850-867.	4.2	4
21	Sensitivity analysis on globularized fraction of β lamellae in titanium alloys. Transactions of Nonferrous Metals Society of China, 2019, 29, 305-312.	4.2	3
22	Quantitative analysis of interleaved degree in lamellar microstructure of titanium alloys. Materials and Design, 2020, 189, 108490.	7.0	3
23	Effect of processing parameters on flow behaviors and microstructure during high temperature deformation of GH4586 superalloy. Journal of Central South University, 2021, 28, 338-350.	3.0	3
24	The role of β phase in the morphology evolution of β lamellae in a dual-phase titanium alloy during high temperature compression. Journal of Alloys and Compounds, 2022, 910, 164901.	5.5	3
25	Internal state variable models for microstructure in high temperature deformation of titanium alloys. Science in China Series D: Earth Sciences, 2008, 51, 1921-1929.	0.9	2
26	Effect of strain rate on β -lath thickness of TC17 alloy after deformation and subsequent heat treatment. MATEC Web of Conferences, 2020, 321, 13003.	0.2	0