Jiao Luo

List of Publications by Year in descending order

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		1163117	839539
26	340	8	18
papers	citations	h-index	g-index

27	27	27	224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	The role of Î² phase in the morphology evolution of Î± lamellae in a dual-phase titanium alloy during high temperature compression. Journal of Alloys and Compounds, 2022, 910, 164901.	5.5	3
3	Mechanisms of stress-induced martensitic transformation and transformation-induced plasticity in NiTi shape memory alloy related to superelastic stability. Scripta Materialia, 2022, 217, 114775.	5.2	18
4	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
5	The evolution of dynamic recrystallization and recrystallization texture during isothermal compression of NiTi shape memory alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 820, 141424.	5.6	9
6	Flow Behaviors and Processing Maps of NiTi Shape Memory Alloy with Microstructural Observations on Austenite Phase during Hot Compression. Journal of Materials Engineering and Performance, 2020, 29, 6931-6939.	2.5	7
7	Formation and evolution of new Î± grain boundary and its influence on globularization of Î± lamellae in TC17 alloy. Journal of Alloys and Compounds, 2020, 848, 156141.	5.5	17
8	Quantitative analysis of interleaved degree in lamellar microstructure of titanium alloys. Materials and Design, 2020, 189, 108490.	7.0	3
9	Effect of strain rate on Î±-lath thickness of TC17 alloy after deformation and subsequent heat treatment. MATEC Web of Conferences, 2020, 321, 13003.	0.2	0
10	Sensitivity analysis on globularized fraction of Î± lamellae in titanium alloys. Transactions of Nonferrous Metals Society of China, 2019, 29, 305-312.	4.2	3
11	Microstructure evolution and its effect on flow stress of TC17 alloy during deformation in Î±+Î² two-phase region. Transactions of Nonferrous Metals Society of China, 2019, 29, 1430-1438.	4.2	8
12	Prediction model for flow stress during isothermal compression in Î±Â+ÂÎ² phase field of TC4 alloy. Rare Metals, 2018, 37, 369-375.	7.1	5
13	Collaborative behavior in Î± lamellae and Î² phase evolution and its effect on the globularization of TC17 alloy. Materials and Design, 2018, 146, 152-162.	7.0	26
14	The evolution and effects of second phase particles during hot extrusion and re-extrusion of a NiTi shape memory alloy. Journal of Alloys and Compounds, 2018, 735, 1145-1151.	5.5	8
15	Microstructural heterogeneity and texture of as-received, vacuum arc-cast, extruded, and re-extruded NiTi shape memory alloy. Journal of Alloys and Compounds, 2017, 712, 494-509.	5.5	15
16	Three-dimensional Numerical Simulation and Experimental Analysis of Austenite Grain Growth Behavior in Hot Forging Processes of 300M Steel Large Components. Journal of Iron and Steel Research International, 2016, 23, 1012-1019.	2.8	6
17	Formation of adiabatic shear band and deformation mechanisms during warm compression of Tiâ€“6Alâ€“4V alloy. Rare Metals, 2016, 35, 598-605.	7.1	5
18	Microstructure and mechanical properties of heat-treated Tiâ€“5Alâ€“2Snâ€“2Zrâ€“4Moâ€“4Cr. Transactions of Nonferrous Metals Society of China, 2015, 25, 2893-2900.	4.2	19

#	Article	IF	Citations
19	Variation effect of strain rate on microstructure in isothermal compression of Ti-6Al-4V alloy. Rare Metals, 2012, 31, 7-11.	7.1	8
20	3D finite element simulation of microstructure evolution in blade forging of Ti-6Al-4V alloy based on the internal state variable models. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 122-130.	4.9	6
21	Modeling of grain size in isothermal compression of Ti-6Al-4V alloy using fuzzy neural network. Rare Metals, 2011, 30, 555-564.	7.1	8
22	Microstructure evolution in the high temperature compression of Ti-5.6Al-4.8Sn-2.0Zr alloy. Rare Metals, 2010, 29, 533-537.	7.1	6
23	Thermomechanical coupling simulation and experimental study in the isothermal ECAP processing of Ti-6Al-4V alloy. Rare Metals, 2010, 29, 613-620.	7.1	8
24	Constitutive model for high temperature deformation of titanium alloys using internal state variables. Mechanics of Materials, 2010, 42, 157-165.	3.2	122
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	Modeling of constitutive relationships and microstructural variables of Tiâ€“6.62Alâ€“5.14Snâ€“1.82Zr alloy during high temperature deformation. Materials Characterization, 2008, 59, 1386-1394.	4.4	21