Yu Cao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8257451/publications.pdf

Version: 2024-02-01

25 papers	627 citations	687220 13 h-index	580701 25 g-index
25 all docs	25 docs citations	25 times ranked	477 citing authors

#	Article	IF	Citations
1	Evolution of strain-induced precipitates in Inconel 617B alloy and their effect on flow behavior. Journal of Alloys and Compounds, 2022, 891, 161992.	2.8	4
2	A quantitative study on planar mechanical anisotropy of a Mg-2Zn-1Ca alloy. Journal of Materials Science and Technology, 2022, 109, 30-48.	5.6	15
3	Three-dimensional hot processing map of a nickel-based superalloy (Alloy 925) established by modified artificial neural network model. Intermetallics, 2022, 141, 107433.	1.8	11
4	Microstructure and Texture of an Aluminum Plate Produced by Multipass Cold Rolling and Graded Annealing Process. Metals, 2022, 12, 260.	1.0	6
5	Effect of Residual Deformation Energy and Critical Heating Rate on Cubic Texture and Grain Growth Behavior of Severely Deformed Aluminum Foil. Materials, 2022, 15, 1395.	1.3	1
6	On the critical strain of thermal-mechanical processing to tailor grain boundary character distribution in INCOLOY 925 alloy. Intermetallics, 2022, 148, 107635.	1.8	3
7	Orientation-Dependent Characteristics for Residual Grains during Hot Deformation of Nickel-Based Alloy 925. Acta Metallurgica Sinica (English Letters), 2021, 34, 1296-1306.	1.5	4
8	An Improved Constitutive Model Based on BP Artificial Neural Network and 3D Processing Maps of a Spray-Formed Alâ€“Cuâ€“Li Alloy. Transactions of the Indian Institute of Metals, 2021, 74, 1809.	0.7	6
9	Characteristic and mechanism of dynamic recrystallization in a newly developed Fe-Cr-Ni-Al-Nb superalloy during hot deformation. Journal of Alloys and Compounds, 2021, 865, 158601.	2.8	31
10	Plastic thermal deformation behavior and microstructure evolution of solid solution strengthened Ni-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 819, 141533.	2.6	7
11	Hot Deformation Characteristics and Dynamic Recrystallization Mechanisms of a Newly Developed Austenitic Heat-Resistant Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 5409-5428.	1.1	3
12	Thermal deformation behavior and microstructure evolution of GH4169 superalloy under the shear-compression deformation conditions. Materials and Design, 2021, 212, 110195.	3.3	22
13	Investigation on microstructure and localized corrosion behavior in the stir zone of dissimilar friction-stir-welded AA2024/7075 joint. Journal of Materials Science, 2020, 55, 15005-15032.	1.7	18
14	Dynamic behavior and modified artificial neural network model for predicting flow stress during hot deformation of Alloy 925. Materials Today Communications, 2020, 25, 101329.	0.9	26
15	Optimization of Tensile and Corrosion Properties of Dissimilar Friction Stir Welded AA2024-7075 Joints. Journal of Materials Engineering and Performance, 2019, 28, 183-199.	1.2	16
16	Effect of dynamic strain aging and precipitation on the hot deformation behavior of 253MA heat-resistant alloy. Journal of Materials Science, 2019, 54, 1716-1727.	1.7	12
17	Influence of dynamic strain aging on the mechanical properties and microstructural evolution for Alloy 800H during hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 724, 37-44.	2.6	21
18	On the grain boundary character distribution of Incoloy 800H during dynamic recrystallization. Journal of Nuclear Materials, 2017, 486, 21-25.	1.3	10

#	Article	IF	Citations
19	Texture and microstructure evolution of Incoloy 800H superalloy during hot rolling and solution treatment. Journal of Alloys and Compounds, 2017, 698, 304-316.	2.8	15
20	Grain boundary character distribution during the post-deformation recrystallization of Incoloy 800H at elevated temperature. Materials Letters, 2016, 163, 24-27.	1.3	26
21	Research on the hot deformation behavior of a Feâ€“Niâ€“Cr alloy (800H) at temperatures above 1000ÂÂ°C. Journal of Nuclear Materials, 2015, 465, 104-115.	1.3	15
22	On the hot deformation behavior of AISI 420 stainless steel based on constitutive analysis and CSL model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 593, 111-119.	2.6	45
23	An electron backscattered diffraction study on the dynamic recrystallization behavior of a nickelâ€“chromium alloy (800H) during hot deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 585, 71-85.	2.6	182
24	RESEARCH ON HOT DEFORMATION BEHAVIOR ANDHOT WORKABILITY OF ALLOY 800H. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 811.	0.3	14
25	Hot deformation behavior of Ti-15-3 titanium alloy: a study using processing maps, activation energy map, and Zenerâ€“Hollomon parameter map. Journal of Materials Science, 2012, 47, 4000-4011.	1.7	114