

Yu Cao

List of Publications by Year in descending order

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papers

627
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687220

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477
citing authors

#	ARTICLE	IF	CITATIONS
1	An electron backscattered diffraction study on the dynamic recrystallization behavior of a nickel–chromium alloy (800H) during hot deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 585, 71-85.	2.6	182
2	Hot deformation behavior of Ti-15-3 titanium alloy: a study using processing maps, activation energy map, and Zener–Hollomon parameter map. <i>Journal of Materials Science</i> , 2012, 47, 4000-4011.	1.7	114
3	On the hot deformation behavior of AISI 420 stainless steel based on constitutive analysis and CSL model. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 593, 111-119.	2.6	45
4	Characteristic and mechanism of dynamic recrystallization in a newly developed Fe-Cr-Ni-Al-Nb superalloy during hot deformation. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158601.	2.8	31
5	Grain boundary character distribution during the post-deformation recrystallization of Incoloy 800H at elevated temperature. <i>Materials Letters</i> , 2016, 163, 24-27.	1.3	26
6	Dynamic behavior and modified artificial neural network model for predicting flow stress during hot deformation of Alloy 925. <i>Materials Today Communications</i> , 2020, 25, 101329.	0.9	26
7	Thermal deformation behavior and microstructure evolution of GH4169 superalloy under the shear-compression deformation conditions. <i>Materials and Design</i> , 2021, 212, 110195.	3.3	22
8	Influence of dynamic strain aging on the mechanical properties and microstructural evolution for Alloy 800H during hot deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 724, 37-44.	2.6	21
9	Investigation on microstructure and localized corrosion behavior in the stir zone of dissimilar friction-stir-welded AA2024/7075 joint. <i>Journal of Materials Science</i> , 2020, 55, 15005-15032.	1.7	18
10	Optimization of Tensile and Corrosion Properties of Dissimilar Friction Stir Welded AA2024-7075 Joints. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 183-199.	1.2	16
11	Research on the hot deformation behavior of a Fe–Ni–Cr alloy (800H) at temperatures above 1000°C. <i>Journal of Nuclear Materials</i> , 2015, 465, 104-115.	1.3	15
12	Texture and microstructure evolution of Incoloy 800H superalloy during hot rolling and solution treatment. <i>Journal of Alloys and Compounds</i> , 2017, 698, 304-316.	2.8	15
13	A quantitative study on planar mechanical anisotropy of a Mg-2Zn-1Ca alloy. <i>Journal of Materials Science and Technology</i> , 2022, 109, 30-48.	5.6	15
14	RESEARCH ON HOT DEFORMATION BEHAVIOR AND HOT WORKABILITY OF ALLOY 800H. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2013, 49, 811.	0.3	14
15	Effect of dynamic strain aging and precipitation on the hot deformation behavior of 253MA heat-resistant alloy. <i>Journal of Materials Science</i> , 2019, 54, 1716-1727.	1.7	12
16	Three-dimensional hot processing map of a nickel-based superalloy (Alloy 925) established by modified artificial neural network model. <i>Intermetallics</i> , 2022, 141, 107433.	1.8	11
17	On the grain boundary character distribution of Incoloy 800H during dynamic recrystallization. <i>Journal of Nuclear Materials</i> , 2017, 486, 21-25.	1.3	10
18	Plastic thermal deformation behavior and microstructure evolution of solid solution strengthened Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 819, 141533.	2.6	7

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19	An Improved Constitutive Model Based on BP Artificial Neural Network and 3D Processing Maps of a Spray-Formed Al-Cu-Li Alloy. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 1809.	0.7	6
20	Microstructure and Texture of an Aluminum Plate Produced by Multipass Cold Rolling and Graded Annealing Process. <i>Metals</i> , 2022, 12, 260.	1.0	6
21	Orientation-Dependent Characteristics for Residual Grains during Hot Deformation of Nickel-Based Alloy 925. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1296-1306.	1.5	4
22	Evolution of strain-induced precipitates in Inconel 617B alloy and their effect on flow behavior. <i>Journal of Alloys and Compounds</i> , 2022, 891, 161992.	2.8	4
23	Hot Deformation Characteristics and Dynamic Recrystallization Mechanisms of a Newly Developed Austenitic Heat-Resistant Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 5409-5428.	1.1	3
24	On the critical strain of thermal-mechanical processing to tailor grain boundary character distribution in INCOLOY 925 alloy. <i>Intermetallics</i> , 2022, 148, 107635.	1.8	3
25	Effect of Residual Deformation Energy and Critical Heating Rate on Cubic Texture and Grain Growth Behavior of Severely Deformed Aluminum Foil. <i>Materials</i> , 2022, 15, 1395.	1.3	1