

Jian-Xin Dong

List of Publications by Year in descending order

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papers

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30
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30
times ranked

355
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidation behavior and mechanism of powder metallurgy Rene95 nickel based superalloy between 800 and 1000°C. Applied Surface Science, 2010, 256, 7510-7515.	6.1	84
2	A Study on the Effect of Strain Rate on the Dynamic Recrystallization Mechanism of Alloy 617B. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5071-5087.	2.2	69
3	Mechanism of δ -Cr precipitation and crystallographic relationships between δ -Cr and γ phases in Inconel 718 alloy after long-time thermal exposure. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 312-317.	4.9	30
4	Stress Rupture Fracture Model and Microstructure Evolution for Waspaloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3084-3098.	2.2	29
5	EFFECT OF COOLING RATES ON SEGREGATION AND DENSITY VARIATION IN THE MUSHY ZONE DURING SOLIDIFICATION OF SUPERALLOY INCONEL 718. Chemical Engineering Communications, 2010, 197, 1571-1585.	2.6	23
6	Oxidation Behavior and Mechanism of Inconel 740H Alloy for Advanced Ultra-supercritical Power Plants Between 1050 and 1170°C. Oxidation of Metals, 2015, 84, 61-72.	2.1	21
7	Constitutive relationship of IN690 superalloy by using uniaxial compression tests. Rare Metals, 2011, 30, 81-86.	7.1	20
8	Microstructure and homogenization process of as-cast GH4169D alloy for novel turbine disk. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 889-900.	4.9	18
9	Solidification characteristics and hot tearing susceptibility of Ni-based superalloys for turbocharger turbine wheel. Transactions of Nonferrous Metals Society of China, 2014, 24, 2737-2751.	4.2	16
10	Effect of boron addition on the microstructure and stress-rupture properties of directionally solidified superalloys. International Journal of Minerals, Metallurgy and Materials, 2014, 21, 1120-1126.	4.9	15
11	Investigations on carburizing mechanisms of Cr35Ni45Nb subjected to different service conditions in a high-temperature vacuum environment. Journal of Materials Research, 2015, 30, 841-851.	2.6	15
12	Mechanism of high-temperature oxidation effects in fatigue crack propagation and fracture mode for FGH97 superalloy. Rare Metals, 2019, 38, 642-652.	7.1	13
13	Microstructure and stress rupture properties of polycrystal and directionally solidified castings of nickel-based superalloys. International Journal of Minerals, Metallurgy and Materials, 2014, 21, 58-64.	4.9	12
14	Dependence of Crystallographic Orientation on Pitting Corrosion Behavior of Ni-Fe-Cr Alloy 028. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 919-925.	2.1	12
15	The Effect of Ca Content on the Formation Behavior of Inclusions in the Heat Affected Zone of Thick High-Strength Low-Alloy Steel Plates after Large Heat Input Weldings. Metals, 2019, 9, 1328.	2.3	10
16	Relationship Between Grain Boundary Segregation of Antimony and Temper Embrittlement in Titanium-Doped Nickel-Chromium Steel. Journal of Iron and Steel Research International, 2011, 18, 68-72.	2.8	9
17	Hot corrosion behavior and mechanism of FGH96 P/M superalloy in molten NaCl+Na ₂ SO ₄ salts. Rare Metals, 2019, 38, 173-180.	7.1	9
18	Microstructural Evolution and Oxidation Behavior of Alloy Ni-13Mo-13Cr-9W-3Fe-3Ti-2Al During Isothermal Exposure at 900°C. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 4331-4343.	2.2	8

#	ARTICLE	IF	CITATIONS
19	Elevating Prediction Performance for Mechanical Properties of Hot-Rolled Strips by Using Semi-Supervised Regression and Deep Learning. IEEE Access, 2020, 8, 134124-134136.	4.2	8
20	Hot deformation behavior of uniform fine-grained GH4720Li alloy based on its processing map. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 83-91.	4.9	7
21	Constitutive behavior and processing maps of low-expansion GH909 superalloy. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 432-443.	4.9	6
22	Nucleation mechanisms of dynamic recrystallization for G3 alloy during hot compression. Rare Metals, 2016, 35, 543-550.	7.1	5
23	Effects of coarse particles, prior austenite grains, and microstructures on impact toughness in heat-affected zone of Mg deoxidation steel plates without or with Al addition. Ironmaking and Steelmaking, 2020, , 1-11.	2.1	5
24	A Study on the Recrystallization Behavior of Ni-Based Alloy G3 During Hot Deformation. Journal of Materials Engineering and Performance, 2016, 25, 5145-5156.	2.5	4
25	Study on Gamma Prime and Carbides of Alloy A286 by Traditional Thermodynamic Calculation. High Temperature Materials and Processes, 2018, 37, 495-507.	1.4	3
26	Effect of cooling rate on the phase transformation and stability of the mushy zone during the solidification of Waspaloy. International Journal of Minerals, Metallurgy and Materials, 2010, 17, 464-469.	4.9	2
27	A new insight into rapid oxidation of alloy 925 contaminated by oxide powder. Rare Metals, 2021, 40, 1872-1880.	7.1	1
28	EFFECTS OF SUPERHEAT ON THE MICROSEGREGATION AND FLUID FLOW TENDENCY DURING DIRECTIONAL SOLIDIFICATION OF SUPERALLOY In718. Chemical Engineering Communications, 2010, 197, 1586-1596.	2.6	0
29	A study of reaction processes in SiC fiber reinforced Ni-Fe matrix composite during HIP. Composite Interfaces, 2021, 28, 209-222.	2.3	0