

# Jian-Xin Dong

## List of Publications by Year in descending order

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29  
papers

454  
citations

759233

12  
h-index

713466

21  
g-index

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30  
docs citations

30  
times ranked

355  
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of reaction processes in SiC fiber reinforced Ni-Fe matrix composite during HIP. <i>Composite Interfaces</i> , 2021, 28, 209-222.	2.3	0
2	A new insight into rapid oxidation of alloy 925 contaminated by oxide powder. <i>Rare Metals</i> , 2021, 40, 1872-1880.	7.1	1
3	Elevating Prediction Performance for Mechanical Properties of Hot-Rolled Strips by Using Semi-Supervised Regression and Deep Learning. <i>IEEE Access</i> , 2020, 8, 134124-134136.	4.2	8
4	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. <i>Ironmaking and Steelmaking</i> , 2020, , 1-11.	2.1	5
5	Microstructure and homogenization process of as-cast GH4169D alloy for novel turbine disk. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 889-900.	4.9	18
6	Microstructural Evolution and Oxidation Behavior of Alloy Ni-13Mo-13Cr-9W-3Fe-3Ti-2Al During Isothermal Exposure at 900°C. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 4331-4343.	2.2	8
7	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. <i>Metals</i> , 2019, 9, 1328.	2.3	10
8	Mechanism of high-temperature oxidation effects in fatigue crack propagation and fracture mode for FGH97 superalloy. <i>Rare Metals</i> , 2019, 38, 642-652.	7.1	13
9	Hot corrosion behavior and mechanism of FGH96 P/M superalloy in molten NaCl-Na <sub>2</sub> SO <sub>4</sub> salts. <i>Rare Metals</i> , 2019, 38, 173-180.	7.1	9
10	Dependence of Crystallographic Orientation on Pitting Corrosion Behavior of Ni-Fe-Cr Alloy 028. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 919-925.	2.1	12
11	Study on Gamma Prime and Carbides of Alloy A286 by Traditional Thermodynamic Calculation. <i>High Temperature Materials and Processes</i> , 2018, 37, 495-507.	1.4	3
12	Constitutive behavior and processing maps of low-expansion GH909 superalloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 432-443.	4.9	6
13	A Study on the Recrystallization Behavior of Ni-Based Alloy G3 During Hot Deformation. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 5145-5156.	2.5	4
14	A Study on the Effect of Strain Rate on the Dynamic Recrystallization Mechanism of Alloy 617B. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 5071-5087.	2.2	69
15	Nucleation mechanisms of dynamic recrystallization for G3 alloy during hot compression. <i>Rare Metals</i> , 2016, 35, 543-550.	7.1	5
16	Hot deformation behavior of uniform fine-grained GH4720Li alloy based on its processing map. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 83-91.	4.9	7
17	Investigations on carburizing mechanisms of Cr35Ni45Nb subjected to different service conditions in a high-temperature vacuum environment. <i>Journal of Materials Research</i> , 2015, 30, 841-851.	2.6	15
18	Oxidation Behavior and Mechanism of Inconel 740H Alloy for Advanced Ultra-supercritical Power Plants Between 1050 and 1170°C. <i>Oxidation of Metals</i> , 2015, 84, 61-72.	2.1	21

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19	Effect of boron addition on the microstructure and stress-rupture properties of directionally solidified superalloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 1120-1126.	4.9	15
20	Microstructure and stress rupture properties of polycrystal and directionally solidified castings of nickel-based superalloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 58-64.	4.9	12
21	Solidification characteristics and hot tearing susceptibility of Ni-based superalloys for turbocharger turbine wheel. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 2737-2751.	4.2	16
22	Stress Rupture Fracture Model and Microstructure Evolution for Waspaloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3084-3098.	2.2	29
23	Relationship Between Grain Boundary Segregation of Antimony and Temper Embrittlement in Titanium-Doped Nickel-Chromium Steel. <i>Journal of Iron and Steel Research International</i> , 2011, 18, 68-72.	2.8	9
24	Constitutive relationship of IN690 superalloy by using uniaxial compression tests. <i>Rare Metals</i> , 2011, 30, 81-86.	7.1	20
25	Mechanism of $\hat{\Gamma}$ -Cr precipitation and crystallographic relationships between $\hat{\Gamma}$ -Cr and $\hat{\Gamma}$ phases in Inconel 718 alloy after long-time thermal exposure. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010, 17, 312-317.	4.9	30
26	Effect of cooling rate on the phase transformation and stability of the mushy zone during the solidification of Waspaloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010, 17, 464-469.	4.9	2
27	Oxidation behavior and mechanism of powder metallurgy Rene95 nickel based superalloy between 800 and 1000°C. <i>Applied Surface Science</i> , 2010, 256, 7510-7515.	6.1	84
28	EFFECTS OF SUPERHEAT ON THE MICROSEGREGATION AND FLUID FLOW TENDENCY DURING DIRECTIONAL SOLIDIFICATION OF SUPERALLOY In718. <i>Chemical Engineering Communications</i> , 2010, 197, 1586-1596.	2.6	0
29	EFFECT OF COOLING RATES ON SEGREGATION AND DENSITY VARIATION IN THE MUSHY ZONE DURING SOLIDIFICATION OF SUPERALLOY INCONEL 718. <i>Chemical Engineering Communications</i> , 2010, 197, 1571-1585.	2.6	23