

Zhi-Hao Yao

List of Publications by Year in descending order

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47
papers

1,144
citations

430754

18
h-index

395590

33
g-index

50
all docs

50
docs citations

50
times ranked

856
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Overheating Events on Microstructure and Low-Cycle Fatigue Properties of a Nickel-Based Single-Crystal Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 2214-2225.	1.1	5
2	Molecular dynamics simulation of the γ' phase deformation behaviour in nickel-based superalloys. <i>Materials Science and Technology</i> , 2022, 38, 1439-1450.	0.8	1
3	A study of reaction processes in SiC fiber reinforced Ni-Fe matrix composite during HIP. <i>Composite Interfaces</i> , 2021, 28, 209-222.	1.3	0
4	Creep Failure and Damage Mechanism of Inconel 718 Alloy at 800–900°C. <i>Metals and Materials International</i> , 2021, 27, 970-984.	1.8	15
5	U-shaped trend of stress relaxation stability of Inconel718 superalloy with initial stress increasing. <i>Materialia</i> , 2020, 9, 100570.	1.3	3
6	Characterization of Hot Deformation Behavior and Dislocation Structure Evolution of an Advanced Nickel-Based Superalloy. <i>Metals</i> , 2020, 10, 920.	1.0	7
7	Influence and Sensitivity of Temperature and Microstructure on the Fluctuation of Creep Properties in Ni-Base Superalloy. <i>Materials</i> , 2020, 13, 4758.	1.3	4
8	Cold deformation mechanism of cobalt-base superalloy GH5605. <i>Materials Letters</i> , 2020, 267, 127533.	1.3	13
9	The sharp drop in fatigue crack growth life at a critical elevated temperature for a PM Ni-based superalloy FGH97. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 761, 138038.	2.6	10
10	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.	2.4	18
11	Design for Novel Hot-Work Die Steel by Thermodynamic Calculation and Microstructural Examination. <i>Metals</i> , 2019, 9, 805.	1.0	6
12	An optimization method of upsetting process for homogenized, nickel-based superalloy Udimet 720Li ingot considering both cracking and recrystallization. <i>Journal of Materials Processing Technology</i> , 2019, 269, 52-64.	3.1	20
13	Dissolution behavior of intragranular M ₂₃ C ₆ carbide in 617B Ni-base superalloy during long-term aging. <i>Journal of Alloys and Compounds</i> , 2019, 787, 216-228.	2.8	39
14	Mechanism of high-temperature oxidation effects in fatigue crack propagation and fracture mode for FGH97 superalloy. <i>Rare Metals</i> , 2019, 38, 642-652.	3.6	13
15	Hot corrosion behavior and mechanism of FGH96 P/M superalloy in molten NaCl–Na ₂ SO ₄ salts. <i>Rare Metals</i> , 2019, 38, 173-180.	3.6	9
16	The effect of stress on primary MC carbides degeneration of Waspaloy during long term thermal exposure. <i>Journal of Alloys and Compounds</i> , 2018, 735, 928-937.	2.8	31
17	Limitations of calculating stress relaxation limit by function-fitting of Inconel718 superalloy. <i>Materials Letters</i> , 2018, 221, 89-92.	1.3	9
18	Influences of PPB, PPB affect zone, grain boundary and phase boundary on crack propagation path for a P/M superalloy FGH4096. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 724, 17-28.	2.6	34

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19	Study on Gamma Prime and Carbides of Alloy A286 by Traditional Thermodynamic Calculation. High Temperature Materials and Processes, 2018, 37, 495-507.	0.6	3
20	Phenomenological model for the effect of strain rate on recrystallization and grain growth kinetics in the 617B alloy. Journal of Alloys and Compounds, 2018, 735, 1520-1535.	2.8	30
21	Effect of C content on microstructure and tensile properties of as-cast CoCrFeMnNi high entropy alloy. Materials Chemistry and Physics, 2018, 210, 136-145.	2.0	139
22	Creep performance and damage mechanism for Allvac 718Plus superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 738, 308-322.	2.6	35
23	Stress Relaxation Behavior Comparison of Typical Nickel-Base Superalloys for Fasteners. Minerals, Metals and Materials Series, 2018, , 789-804.	0.3	4
24	Constitutive behavior and processing maps of low-expansion GH909 superalloy. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 432-443.	2.4	6
25	A trace-driven evaluation of cloud computing schedulers for IaaS. , 2017, , .		3
26	Cooling rate effect on microstructure and mechanical properties of Al x CoCrFeNi high entropy alloys. Materials and Design, 2017, 132, 392-399.	3.3	74
27	A Study on the Recrystallization Behavior of Ni-Based Alloy G3 During Hot Deformation. Journal of Materials Engineering and Performance, 2016, 25, 5145-5156.	1.2	4
28	The recrystallization model and microstructure prediction of alloy 690 during hot deformation. Materials and Design, 2016, 104, 162-173.	3.3	46
29	Stress relaxation behavior and mechanism of AEREX350 and Waspaloy superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 678, 10-22.	2.6	27
30	Recovery time of high temperature superconducting tapes exposed in liquid nitrogen. Physica C: Superconductivity and Its Applications, 2016, 527, 50-54.	0.6	6
31	Deformation mechanisms in a fine-grained Udimet 720LI nickel-base superalloy with high volume fractions of γ' phases. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 122-134.	2.6	44
32	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.	1.1	69
33	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.	2.4	7
34	The hot deformation behaviors of coarse, fine and mixed grain for Udimet 720LI superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 102-115.	2.6	65
35	Evolution of twins and substructures during low strain rate hot deformation and contribution to dynamic recrystallization in alloy 617B. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 369-381.	2.6	85
36	Relevance of Primary γ and γ' ; Dissolution and Abnormal Grain Growth in UDIMET 720LI. Materials Transactions, 2015, 56, 1968-1976.	0.4	7

#	ARTICLE	IF	CITATIONS
37	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.	1.0	21
38	Hot deformation characteristics of Alloy 617B nickel-based superalloy: A study using processing map. Journal of Alloys and Compounds, 2015, 647, 338-350.	2.8	82
39	Deformation and recrystallization behavior of a coarse-grain, nickel-base superalloy Udimet720Li ingot material. Materials Characterization, 2015, 107, 398-410.	1.9	53
40	Multi-dimensional scheduling in cloud storage systems. , 2015, , .		12
41	Pulsed electric current bonding between Ni-based single crystal and powder metallurgy superalloys. Materials Letters, 2014, 136, 375-378.	1.3	3
42	Stress Rupture Fracture Model and Microstructure Evolution for Waspaloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 3084-3098.	1.1	29
43	INVESTIGATIONS ON DISSOLUTION MECHANISM OF LAVES PHASE IN GH4169 ALLOY INGOT BASED ON CLASSICAL DYNAMICAL MODEL. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 372.	0.3	11
44	ELEMENTS DIFFUSION LAW OF DD407/FGH95 DIFFUSION BONDING UNDER HOT ISOSTATIC PRESSING. Building Diffusion Bonding Model. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 1041.	0.3	2
45	ELEMENTS DIFFUSION LAW OF DD407/FGH95 DIFFUSION BONDING UNDER HOT ISOSTATIC PRESSURE. Model Verification and Experimental Analysis. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 1051.	0.3	2
46	Effects of Microstructure Characteristics on Fatigue Crack Growth Rate of Powder Metallurgy Superalloy FGH96. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2013, 49, 158.	0.7	0
47	Identification of glycoproteins associated with different histological subtypes of ovarian tumors using quantitative glycoproteomics. Proteomics, 2011, 11, 4677-4687.	1.3	36