Hongyang Jing

List of Publications by Year
in descending order

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45 papers	698 citations	567281 15 h-index	580821 25 g-index
45 all docs	45 docs citations	45 times ranked	449 citing authors

#	Article	IF	Citations
1	Additive manufacturing of high-performance 15-5PH stainless steel matrix composites. Virtual and Physical Prototyping, 2022, 17, 366-381.	10.4	15
2	Fracture mechanism of a Ni-base alloy under high-temperature cyclic deformation: Experiments and microstructure characterization. Materials Characterization, 2022, 189, 111944.	4.4	4
3	Effect of applied stress on creep properties of Sanicro 25 welded joint made with a composition-matched weld filler metal. Journal of Materials Science, 2021, 56, 5269-5282.	3.7	2
4	Effects of different scanning patterns on nickel alloy-directed energy deposition based on thermal analysis. Virtual and Physical Prototyping, 2021, 16, S98-S115.	10.4	16
5	Microstructure and Damage Evolution of Inconel 740H Welded Joint during Creep Process at 750ÂÂ°C. Journal of Materials Engineering and Performance, 2021, 30, 4562-4571.	2.5	1
6	Cyclic response and dislocation evolution of a nickel-based superalloy under low cycle fatigue deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141225.	5.6	13
7	Tensile mechanical properties, deformation mechanisms, fatigue behaviour and fatigue life of 316H austenitic stainless steel: Effects of grain size. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 533-550.	3.4	5
8	Prediction models of creep crack initiation for different specimen geometry. Mechanics of Advanced Materials and Structures, 2020, 27, 1639-1652.	2.6	0
9	Analysis on stressâ€strain behavior and life prediction of P92 steel under creepâ€fatigue interaction conditions. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 2731-2743.	3.4	12
10	Low cycle fatigue behavior and microstructure evolution of a novel Fe-22Cr-15Ni austenitic heat-resistant steel. Journal of Materials Research and Technology, 2020, 9, 14388-14400.	5.8	11
11	Determination of creep properties of an advanced Fe-Cr-Ni alloy using small punch creep test with a modified creep strain model. Theoretical and Applied Fracture Mechanics, 2019, 104, 102324.	4.7	14
12	Investigating creep rupture and damage behavior of 41Fe-25.5Cr-23.5Ni alloy small punch creep specimens using a novel microstructure meshing approach. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138370.	5.6	6
13	Stress state and stressâ€induced microstructural evolution around the crack tip of G115 steel after dwellâ€fatigue crack propagation. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2290-2301.	3.4	6
14	Fusion boundary evolution, precipitation behaviour, and interaction with dislocations in an Feâ€“22Crâ€“15Ni steel weldment during long-term creep. Progress in Natural Science: Materials International, 2019, 29, 41-49.	4.4	7
15	A piecewise constitutive model, microstructure and fracture mechanism of a nickel-based superalloy 750H during high-temperature tensile deformation. Journal of Materials Science, 2019, 54, 9775-9796.	3.7	12
16	A segmentation planning method based on the change rate of cross-sectional area of single V-groove for robotic multi-pass welding in intersecting pipe-pipe joint. International Journal of Advanced Manufacturing Technology, 2019, 101, 23-38.	3.0	13
17	Creep Rupture Assessment of New Heat-Resistant Sanicro 25 Steel Using Different Life Prediction Approaches. Journal of Materials Engineering and Performance, 2019, 28, 7464-7474.	2.5	5
18	Cyclic damage behavior of Sanicro 25 alloy at 700â€Â°C: Dispersed damage and concentrated damage. International Journal of Plasticity, 2019, 116, 91-117.	8.8	20

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19	Cyclic deformation behavior of an Fe-Ni-Cr alloy at 700â€¯Â°C: microstructural evolution and cyclic hardening model. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 94-111.	5.6	14
20	Life, dislocation evolution, and fracture mechanism of a 41Fe-25.5Ni-23.5Cr alloy during low cycle fatigue at 700â€¯Â°C. International Journal of Fatigue, 2019, 119, 20-33.	5.7	27
21	Assessment of creep interaction of double elliptical cracks at elevated temperatures using numerical analysis. Archive of Applied Mechanics, 2018, 88, 691-703.	2.2	4
22	Design and performance of weld filler metal to match an advanced heat-resistant Fe-Cr-Ni alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 721, 103-116.	5.6	3
23	Microstructure and mechanical performance of welded joint between a novel heat-resistant steel and Inconel 617 weld metal. Materials Characterization, 2018, 139, 279-292.	4.4	36
24	Creep properties, creep deformation behavior, and microstructural evolution of 9Cr-3W-3Co-1CuVNbB martensite ferritic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 434-447.	5.6	64
25	Analytical and numerical investigations of creep crack initiation considering the load-independent constraint parameter $${{varvec{Q}}}^{*}$$ Q â^—. Archive of Applied Mechanics, 2018, 88, 2031-2050.	2.2	4
26	High-temperature deformation and fracture mechanisms of an advanced heat resistant Fe-Cr-Ni alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 686, 102-112.	5.6	43
27	Tensile mechanical properties, constitutive equations, and fracture mechanisms of a novel 9% chromium tempered martensitic steel at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 690, 104-119.	5.6	44
28	Microstructure and texture study on an advanced heat-resistant alloy during creep. Materials Characterization, 2017, 130, 156-172.	4.4	33
29	Investigation on Microstructure and Impact Toughness of Different Zones in Duplex Stainless Steel Welding Joint. Journal of Materials Engineering and Performance, 2017, 26, 134-150.	2.5	15
30	Influence of surface microstructure and chemical compositions on grooving corrosion of carbon steel welded joints. Materialpruefung/Materials Testing, 2017, 59, 957-964.	2.2	12
31	Effect of Welding Heat Input on the Corrosion Resistance of Carbon Steel Weld Metal. Journal of Materials Engineering and Performance, 2016, 25, 565-576.	2.5	19
32	Recommend design of filler metal to minimize carbon steel weld metal preferential corrosion in CO2-saturated oilfield produced water. Applied Surface Science, 2016, 389, 609-622.	6.1	23
33	Deformation Mechanism and Microstructure Evolution of T92/S30432 Dissimilar Welded Joint During Creep. Journal of Materials Engineering and Performance, 2016, 25, 3960-3971.	2.5	16
34	Numerical Modeling of Weld Joint Corrosion. Journal of Materials Engineering and Performance, 2016, 25, 960-965.	2.5	10
35	Microstructure and Joint Properties of Nano-Silver Paste by Ultrasonic-Assisted Pressureless Sintering. Journal of Electronic Materials, 2016, 45, 3003-3012.	2.2	44
36	Dynamic simulation of short-circuiting transfer in GMAW based on the â€œmass-springâ€•model. International Journal of Advanced Manufacturing Technology, 2016, 87, 897-907.	3.0	8

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37	Interfacial Reaction and Shear Strength of SnAgCu/Ni/Bi2Te3-Based TE Materials During Aging. Journal of Materials Engineering and Performance, 2015, 24, 4844-4852.	2.5	12
38	Global Progress on Welding Consumables for HSLA Steel. ISIJ International, 2014, 54, 1472-1484.	1.4	30
39	Experimental study on creep damage evolution process of Type IV cracking in 9Crâ€“0.5Moâ€“1.8Wâ€“VNb steel welded joint. Engineering Failure Analysis, 2012, 19, 22-31.	4.0	31
40	Investigation on mechanism of type IV cracking in P92 steel at 650 Â°C. Journal of Materials Research, 2011, 26, 934-943.	2.6	33
41	J-Integral of interfacial crack between metal-base ceramic coating and steel. Transactions of Tianjin University, 2009, 15, 32-36.	6.4	0
42	Fracture behavior characteristic of ceramic reinforced metal-base coatings. Transactions of Tianjin University, 2009, 15, 50-55.	6.4	0
43	Optimal Design of SnAgCu-CNT Solder Lap-shear Specimen under Thermal Cycles with FEM. , 2007, , .		1
44	Young's modulus and stress intensity factor determination of high velocity electric arc sprayed metal-based ceramic coatings. Surface and Coatings Technology, 2006, 201, 2399-2406.	4.8	10
45	Intergranular corrosion behaviour of FeCoCrNi high-entropy alloy fabricated by selective laser melting. , 0, , .		0