

Jia Huang

List of Publications by Year in descending order

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49
papers

692
citations

567281

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all docs

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49
times ranked

375
citing authors

#	ARTICLE	IF	CITATIONS
1	High temperature LCF life prediction of notched DS Ni-based superalloy using critical distance concept. <i>International Journal of Fatigue</i> , 2011, 33, 1470-1476.	5.7	54
2	Effect of non-uniform growth of TGO layer on cracking behaviors in thermal barrier coatings: A numerical study. <i>Surface and Coatings Technology</i> , 2019, 370, 113-124.	4.8	54
3	Competing fatigue failure behaviors of Ni-based superalloy FGH96 at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 668, 66-72.	5.6	47
4	Constitutive modeling and failure mechanisms of anisotropic tensile and creep behaviors of nickel-base directionally solidified superalloy. <i>Materials & Design</i> , 2013, 45, 663-673.	5.1	40
5	Numerical investigation on the cracking behaviors of thermal barrier coating system under different thermal cycle loading waveforms. <i>Surface and Coatings Technology</i> , 2018, 349, 166-176.	4.8	37
6	Experimental investigation and modelling of microstructure degradation in a DS Ni-based superalloy using a quantitative cross-correlation analysis method. <i>Journal of Alloys and Compounds</i> , 2018, 762, 488-499.	5.5	30
7	Evaluation of the influence of surface crack-like defects on fatigue life for a P/M nickel-based superalloy FGH96. <i>International Journal of Fatigue</i> , 2020, 137, 105639.	5.7	26
8	Systematic methodology for high temperature LCF life prediction of smooth and notched Ni-based superalloy with and without dwells. <i>Computational Materials Science</i> , 2014, 89, 65-74.	3.0	24
9	A systematical weight function modified critical distance method to estimate the creep-fatigue life of geometrically different structures. <i>International Journal of Fatigue</i> , 2019, 126, 6-19.	5.7	24
10	Comparative investigation of creep behavior of ceramic fiber-reinforced alumina and silica aerogel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 609, 125-130.	5.6	23
11	The effect of inclusion factors on fatigue life and fracture-mechanics-based life method for a P/M superalloy at elevated temperature. <i>International Journal of Fatigue</i> , 2020, 131, 105365.	5.7	21
12	An improved viscoplastic constitutive model and its application to creep behavior of turbine blade. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 344-355.	5.6	19
13	Microstructure-sensitive modeling of competing failure mode between surface and internal nucleation in high cycle fatigue. <i>International Journal of Plasticity</i> , 2020, 126, 102622.	8.8	18
14	Investigation on non-uniform strains of a 2.5D woven ceramic matrix composite under in-plane tensile stress. <i>Journal of the European Ceramic Society</i> , 2020, 40, 36-48.	5.7	17
15	A physically based model for correlating the microstructural degradation and residual creep lifetime of a polycrystalline Ni-based superalloy. <i>Journal of Alloys and Compounds</i> , 2019, 783, 565-573.	5.5	16
16	The γ' Phase Precipitation of an Inconel 718 Superalloy Fabricated by Electromagnetic Stirring Assisted Laser Solid Forming. <i>Materials</i> , 2019, 12, 2604.	2.9	15
17	High-temperature mechanical properties of nickel-based superalloys manufactured by additive manufacturing. <i>Materials Science and Technology</i> , 2020, 36, 1523-1533.	1.6	15
18	Effect of high temperature on compression property and deformation recovery of ceramic fiber reinforced silica aerogel composites. <i>Science China Technological Sciences</i> , 2017, 60, 1681-1691.	4.0	14

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19	Effect of multi-axial stress state on creep behavior and stress rupture life of a Ni-based DS superalloy. <i>Computational Materials Science</i> , 2014, 85, 20-31.	3.0	13
20	Low-temperature hot corrosion effects on the low-cycle fatigue lifetime and cracking behaviors of a powder metallurgy Ni-based superalloy. <i>International Journal of Fatigue</i> , 2018, 116, 334-343.	5.7	13
21	Effects of tensile load hold time on the fatigue and corrosion-fatigue behavior of turbine blade materials. <i>International Journal of Fatigue</i> , 2021, 152, 106448.	5.7	13
22	Thermo-mechanical analysis of a multilayer hollow cylindrical thermal protection structure with functionally graded ultrahigh-temperature ceramic to be heat resistant layer. <i>Aerospace Science and Technology</i> , 2022, 124, 107532.	4.8	12
23	Evaluation Study on Iterative Inverse Modeling Procedure for Determining Post-Necking Hardening Behavior of Sheet Metal at Elevated Temperature. <i>Metals</i> , 2018, 8, 1044.	2.3	11
24	The Effects of Grain Size and Twins Density on High Temperature Oxidation Behavior of Nickel-Based Superalloy GH738. <i>Materials</i> , 2020, 13, 4166.	2.9	10
25	A Study on Establishing a Microstructure-Related Hardness Model with Precipitate Segmentation Using Deep Learning Method. <i>Materials</i> , 2020, 13, 1256.	2.9	10
26	A physically based methodology for predicting anisotropic creep properties of Ni-based superalloys. <i>Rare Metals</i> , 2016, 35, 606-614.	7.1	9
27	A modified constitutive model considering microstructure degradation of Ni-based superalloys and its application to microstructural damage calculation. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160605.	5.5	9
28	The framework of hot corrosion fatigue life estimation of a PM superalloy using notch fatigue methodology combined with pit evolution. <i>International Journal of Fatigue</i> , 2021, 153, 106483.	5.7	9
29	A modern and robust methodology for modeling anisotropic creep characteristics of Ni-based DS and SC superalloys. <i>Science China Technological Sciences</i> , 2014, 57, 1802-1815.	4.0	7
30	A simple unified critical plane damage parameter for high-temperature LCF life prediction of a Ni-based DS superalloy. <i>Journal of Materials Science</i> , 2014, 49, 7625-7638.	3.7	7
31	A hypothetical dislocation well model for kinematic hardening in cyclic plasticity. <i>International Journal of Plasticity</i> , 2018, 110, 220-247.	8.8	7
32	Effect of bond-coat surface roughness on failure mechanism and lifetime of air plasma spraying thermal barrier coatings. <i>Science China Technological Sciences</i> , 2019, 62, 989-995.	4.0	7
33	Experimental investigation on creep-fatigue behaviours of as-received and service-exposed turbine blades: Mechanism and life evaluation. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2892-2906.	3.4	7
34	Viscoplastic constitutive model for Ni-based directionally solidified superalloy: Experimental validation on notched specimen. <i>Engineering Failure Analysis</i> , 2020, 118, 104930.	4.0	7
35	Experimental study and numerical modeling of the damage evolution of thermal barrier coating systems under tension. <i>Science China Technological Sciences</i> , 2018, 61, 1882-1888.	4.0	6
36	High-temperature hot-corrosion effects on the creep-fatigue behavior of a directionally solidified nickel-based superalloy: Mechanism and lifetime prediction. <i>International Journal of Damage Mechanics</i> , 2020, 29, 798-809.	4.2	6

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37	Unified modeling of high temperature deformations of a Ni-based polycrystalline wrought superalloy under tension-compression, cyclic, creep and creep-fatigue loadings. Science China Technological Sciences, 2015, 58, 248-257.	4.0	5
38	The Influence of Different Microstructure on Tensile Deformation and Acoustic Emission Behaviors of Low-Alloy Steel. Materials, 2020, 13, 4981.	2.9	5
39	Low-cycle fatigue of MCrAlY-coated superalloys: A fracture mechanics-based analysis. Materials Science and Technology, 2021, 37, 151-161.	1.6	5
40	Experimental investigation and numerical modeling for elasto-plastic notch-root stress/strain analysis under monotonic loadings. Science China Technological Sciences, 2014, 57, 1411-1424.	4.0	4
41	Study on Constitutive Relation of Nickel-Base Superalloy Inconel 718 Based on Long Short Term Memory Recurrent Neural Network. Metals, 2020, 10, 1588.	2.3	4
42	Mechanical modeling of a stitched sandwich thermal protection structure with ceramic-fiber-reinforced SiO ₂ aerogel as core layer. Journal of Sandwich Structures and Materials, 2022, 24, 1028-1048.	3.5	4
43	Creep-fatigue behavior of thin-walled plate with holes: Stress state characterization and life estimation. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 3053-3066.	3.4	4
44	Experimental investigation on HCF strength affected by predamage from LCF of a near alpha titanium alloy. Journal of Materials Research, 2014, 29, 2748-2755.	2.6	1
45	Fatigue response, fracture characteristic and life modeling of a near-alpha titanium alloy under typical cyclic loadings in service. Rare Metals, 2016, 35, 676-685.	7.1	1
46	The effect of thermal loading waveform on the failure mechanism of atmospheric-plasma-sprayed thermal barrier coating system. Science China Technological Sciences, 2018, 61, 1679-1687.	4.0	1
47	A reduced-order method for parameter identification of a crystal plasticity model considering crystal symmetry. Science China Technological Sciences, 2019, 62, 373-387.	4.0	1
48	Stress analysis and lifetime prediction for Ti-6Al-4V welding joint under fatigue loading. Materials Science and Technology, 2021, 37, 969-978.	1.6	0
49	Effect of low plastic burnishing on hot corrosion property of TA29 alloy. , 2021, , .		0