

# Run-Zi Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11008781/publications.pdf>

Version: 2024-02-01

32  
papers

987  
citations

471509

17  
h-index

434195

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dislocation-based crystal plasticity modelling of a nickel-based superalloy under dwell-fatigue: From life prediction to residual life assessment. <i>International Journal of Fatigue</i> , 2022, 159, 106569.	5.7	10
2	A novel cold expansion process for improving the surface integrity and fatigue life of small-deep holes in Inconel 718 superalloys. <i>International Journal of Fatigue</i> , 2022, 154, 106544.	5.7	18
3	A dual-scale modelling approach for creep-fatigue crack initiation life prediction of holed structure in a nickel-based superalloy. <i>International Journal of Fatigue</i> , 2022, 154, 106522.	5.7	14
4	Machine learning assisted probabilistic creep-fatigue damage assessment. <i>International Journal of Fatigue</i> , 2022, 156, 106677.	5.7	34
5	Quantitative evaluations of improved surface integrity in ultrasonic rolling process for selective laser melted in-situ TiB <sub>2</sub> /Al composite. <i>Journal of Manufacturing Processes</i> , 2022, 77, 412-425.	5.9	10
6	A data-driven roadmap for creep-fatigue reliability assessment and its implementation in low-pressure turbine disk at elevated temperatures. <i>Reliability Engineering and System Safety</i> , 2022, 225, 108523.	8.9	34
7	A life prediction method and damage assessment for creep-fatigue combined with high-low cyclic loading. <i>International Journal of Fatigue</i> , 2022, 161, 106923.	5.7	14
8	On multiaxial creep-fatigue considering the non-proportional loading effect: Constitutive modeling, deformation mechanism, and life prediction. <i>International Journal of Plasticity</i> , 2022, 155, 103337.	8.8	16
9	Numerical modelling of a new FCP model and a correlation of the FCP rate with the constraint. <i>International Journal of Fatigue</i> , 2022, 163, 107036.	5.7	5
10	Life prediction and damage analysis of creep-fatigue combined with high-low cycle loading by using a crystal plasticity-based approach. <i>International Journal of Fatigue</i> , 2022, 164, 107154.	5.7	6
11	Ultrastrong and ductile additively manufactured precipitation-hardening medium-entropy alloy at ambient and cryogenic temperatures. <i>Acta Materialia</i> , 2022, 236, 118142.	7.9	27
12	A crystal plasticity-based approach for creep-fatigue life prediction and damage evaluation in a nickel-based superalloy. <i>International Journal of Fatigue</i> , 2021, 143, 106031.	5.7	49
13	Probabilistic modeling of uncertainties in fatigue reliability analysis of turbine bladed disks. <i>International Journal of Fatigue</i> , 2021, 142, 105912.	5.7	121
14	The creep-fatigue behavior of a nickel-based superalloy: Experiments study and cyclic plastic analysis. <i>International Journal of Fatigue</i> , 2021, 147, 106187.	5.7	14
15	Fatigue behaviors of 2205 duplex stainless steel with gradient nanostructured surface layer. <i>International Journal of Fatigue</i> , 2021, 147, 106170.	5.7	24
16	Semi-quantitative creep-fatigue damage analysis based on diffraction-based misorientation mapping and the correlation to macroscopic damage evolutions. <i>International Journal of Fatigue</i> , 2021, 149, 106227.	5.7	30
17	Multi-stage dwell fatigue crack growth behaviors in a nickel-based superalloy at elevated temperature. <i>Engineering Fracture Mechanics</i> , 2021, 253, 107859.	4.3	9
18	Cycle-dependent creep-fatigue deformation and life predictions in a nickel-based superalloy at elevated temperature. <i>International Journal of Mechanical Sciences</i> , 2021, 206, 106628.	6.7	34

#	ARTICLE	IF	CITATIONS
19	Experimental and simulated investigations of low cycle fatigue behavior in a nickel-based superalloy with different volume fractions of $\gamma'$ phase. <i>International Journal of Fatigue</i> , 2021, 153, 106411.	5.7	10
20	Creep-Fatigue Crack Initiation Simulation of a Modified 12% Cr Steel Based on Grain Boundary Cavitation and Plastic Slip Accumulation. <i>Materials</i> , 2021, 14, 6565.	2.9	2
21	A novel hole cold-expansion method and its effect on surface integrity of nickel-based superalloy. <i>Journal of Materials Science and Technology</i> , 2020, 59, 129-137.	10.7	23
22	Creep-fatigue life prediction in nickel-based superalloy GH4169 based on microstructural damage quantification with the help of electron backscatter diffraction. <i>Materials and Design</i> , 2020, 195, 108939.	7.0	13
23	Investigations of micro-notch effect on small fatigue crack initiation behaviour in nickel-based alloy GH4169: Experiments and simulations. <i>International Journal of Fatigue</i> , 2020, 136, 105578.	5.7	33
24	High temperature fatigue and creep-fatigue behaviors in a Ni-based superalloy: Damage mechanisms and life assessment. <i>International Journal of Fatigue</i> , 2019, 118, 8-21.	5.7	65
25	Creep-fatigue endurance of a superheater tube plate under non-isothermal loading and multi-dwell condition. <i>International Journal of Mechanical Sciences</i> , 2019, 161-162, 105048.	6.7	4
26	Multi-axial creep-fatigue life prediction considering history-dependent damage evolution: A new numerical procedure and experimental validation. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 131, 313-336.	4.8	51
27	Creep-Fatigue Behaviors and Life Assessments in Two Nickel-Based Superalloys. <i>Journal of Pressure Vessel Technology</i> , <i>Transactions of the ASME</i> , 2018, 140, .	0.6	17
28	Fatigue life prediction of nickel-based GH4169 alloy on the basis of a multi-scale crack propagation approach. <i>Engineering Fracture Mechanics</i> , 2018, 199, 29-40.	4.3	31
29	The effects of inhomogeneous microstructure and loading waveform on creep-fatigue behaviour in a forged and precipitation hardened nickel-based superalloy. <i>International Journal of Fatigue</i> , 2017, 97, 190-201.	5.7	44
30	A generalized strain energy density exhaustion model allowing for compressive hold effect. <i>International Journal of Fatigue</i> , 2017, 104, 61-71.	5.7	19
31	Creep-fatigue life prediction and interaction diagram in nickel-based GH4169 superalloy at 650 Å°C based on cycle-by-cycle concept. <i>International Journal of Fatigue</i> , 2017, 97, 114-123.	5.7	90
32	A modified strain energy density exhaustion model for creep-fatigue life prediction. <i>International Journal of Fatigue</i> , 2016, 90, 12-22.	5.7	116