Yun Luo

List of Publications by Year in Descending Order

50 papers	478 citations	14 h-index	19 g-index
55 ext. papers	598 ext. citations	3.5 avg, IF	3.94 L-index

#	Paper	IF	Citations
50	Mismatch effect of material creep strength on creep damage and failure probability of planar solid oxide fuel cell. *International Journal of Hydrogen Energy*, **2021**, 47, 2673-2673	6.7	1
49	Using reinforce plate to control the residual stresses and deformation during local post-welding heat treatment for ultra-large pressure vessels. *International Journal of Pressure Vessels and Piping*, **2021**, 191, 104332	2.4	2
48	A rigid-flexible coordinated method to control weld residual stress and deformation during local PWHT for ultra-large pressure vessels. *International Journal of Pressure Vessels and Piping*, **2021**, 191, 104323	2.4	4
47	Reduction of welding residual stress in the head-cylinder joint of a large rectifying tower by finite element method and experimental study. *International Journal of Pressure Vessels and Piping*, **2021**, 191, 104311	2.4	3
46	Residual stresses evolution during strip clad welding, post welding heat treatment and repair welding for a large pressure vessel. *International Journal of Pressure Vessels and Piping*, **2021**, 189, 104259	2.4	3
45	Optimization Study of Post-Weld Heat Treatment for 12Cr1MoV Pipe Welded Joint. *Metals*, **2021**, 11, 127	2.3	2
44	Stresses measurement and failure prevention of on-line natural gas transmission pipelines for compressor station on collapsible loess area in northwest China. *Engineering Failure Analysis*, **2021**, 126, 105467	3.2	2
43	Failure analysis of cracking in S30408 weld joint between cylinder and flange of pure steam sterilization pot. *Engineering Failure Analysis*, **2021**, 129, 105684	3.2	1
42	Effects of dual-cracks on the creep crack growth behaviour of HastelloyC276-BNi2 brazed joints. *Materials at High Temperatures*, **2020**, 37, 230-242	1.1	
41	A Study on Microstructure, Residual Stresses and Stress Corrosion Cracking of Repair Welding on 304 Stainless Steel: Part I-Effects of Heat Input. *Materials*, **2020**, 13,	3.5	6
40	Effect of inhomogeneous oxidation on the mechanical degradation of anode supported solid oxide fuel cell. *Journal of Power Sources*, **2020**, 450, 227663	8.9	4
39	A Study on Microstructure, Residual Stresses and Stress Corrosion Cracking of Repair Welding on 304 Stainless Steel: Part II-Effects of Reinforcement Height. *Materials*, **2020**, 13,	3.5	5
38	Failure analysis on cracking of backing plate of lifting lug for air preheater. *Engineering Failure Analysis*, **2020**, 109, 104395	3.2	2
37	Characterization of creep constraint effect for brazed joint specimens at crack tip by new constraint parameter As. *Theoretical and Applied Fracture Mechanics*, **2020**, 109, 102707	3.7	4
36	Fatigue crack simulation of the 316L brazed joint using the virtual crack closure technique. *International Journal of Pressure Vessels and Piping*, **2019**, 173, 20-25	2.4	1
35	A study of effective elastic constants of glass-fibre reinforced thermoplastic pipes by theoretical method and simulation. *International Journal of Pressure Vessels and Piping*, **2019**, 172, 100-106	2.4	1
34	Determination of Repair Weld Residual Stress in a Tube to Tube-Sheet Joint by Neutron Diffraction and the Finite Element Method. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2018**, 140,	1.2	3

33	Effective elastic constants of wire mesh material studied by theoretical and finite element methods. *Composite Structures*, **2018**, 184, 474-483	5.3	8
32	Effects of Inner Defects on Creep Damage and Crack Initiation for a Brazed Joint. *High Temperature Materials and Processes*, **2018**, 37, 863-872	0.9	1
31	Creep rupture behavior of Hastelloy C276-BNi2 brazed joint. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 711, 223-232	5.3	9
30	Modelling of the effect of interface morphology on hydrogen diffusion in a clad plate. *International Journal of Modelling, Identification and Control*, **2018**, 29, 144	0.6	0
29	Effect of helix angle on residual stress in the spiral welded oil pipelines: Experimental and finite element modeling. *International Journal of Pressure Vessels and Piping*, **2018**, 168, 233-245	2.4	15
28	A more appropriate FE model to predict the creep crack initiation and growth behavior of brazed joint. *Engineering Fracture Mechanics*, **2018**, 204, 72-86	4.2	7
27	A new damage evolution model to estimate the creep fracture behavior of brazed joint under multiaxial stress. *International Journal of Mechanical Sciences*, **2018**, 149, 178-189	5.5	14
26	Creep Damage Analysis of a Lattice Truss Panel Structure. *High Temperature Materials and Processes*, **2017**, 36, 89-96	0.9	2
25	A study of the effective elastic modulus of a lattice truss panel structure by experimental and theoretical analysis. *Composite Structures*, **2017**, 165, 130-137	5.3	10
24	Evaluation of Through-Thickness Residual Stresses by Neutron Diffraction and Finite-Element Method in Thick Weld Plates. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2017**, 139,	1.2	28
23	Residual Stress Distribution in a Dissimilar Weld Joint by Experimental and Simulation Study. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2017**, 139,	1.2	14
22	Evolution of thermal stress and failure probability during reduction and re-oxidation of solid oxide fuel cell. *Journal of Power Sources*, **2017**, 371, 65-76	8.9	20
21	Using X-Ray Diffraction and Finite Element Method to Analyze Residual Stress of Tube-to-Tubesheet Welded Joints in a Shell and Tube Heat Exchanger. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2017**, 139,	1.2	5
20	Effect of Helix Angle on Hydrogen Diffusion of Spiral Weld Pipe. *Journal of Engineering Materials and Technology, Transactions of the ASME*, **2017**, 140, 011009	1.8	1
19	Effect of tube radius on creep for an anode supported tubular solid oxide fuel cell: Experimental and finite element simulation. *International Journal of Hydrogen Energy*, **2017**, 42, 23198-23206	6.7	9
18	A model to predict the relaxation of weld residual stress by cyclic load: Experimental and finite element modeling. *International Journal of Fatigue*, **2017**, 95, 293-301	5	43
17	The microstructure, mechanical properties and fracture behavior of hastelloy C276-BNi2 brazed joint. *Materials and Design*, **2017**, 115, 458-466	8.1	21
16	Comparison of Brazed Residual Stress and Thermal Deformation between X-Type and Pyramidal Lattice Truss Sandwich Structure: Neutron Diffraction Measurement and Simulation Study. *High Temperature Materials and Processes*, **2016**, 35, 567-574	0.9	1

15	Effect of notch position on creep damage for brazed joint. *Advances in Engineering Software*, **2016**, 100, 72-81	3.6	14
14	An analytical model to predict the equivalent creep strain rate of a lattice truss panel structure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2016**, 661, 152-159	5.3	6
13	Experimental and Numerical Study on the Reduction of Residual Stress in the Fillet Weld by Overlay Welding and Cutting Method. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2016** , 138,	1.2	5
12	Creep failure prediction of brazing joints with double notches. *Materials and Design*, **2016**, 100, 271-279	8.1	10
11	Effects of anode porosity on thermal stress and failure probability of planar solid oxide fuel cell with bonded compliant seal. *International Journal of Hydrogen Energy*, **2016**, 41, 7464-7474	6.7	18
10	Creep damage and crack initiation in P92B Ni2 brazed joint. *Materials & Design*, **2015**, 72, 63-71		14
9	Notch effect on creep damage for Hastelloy C276-BNi2 brazing joint. *Materials and Design*, **2015**, 84, 212-222	8.1	22
8	Neutron Diffraction Measurement and Numerical Simulation to Study the Effect of Repair Depth on Residual Stress in 316L Stainless Steel Repair Weld. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2015**, 137,	1.2	21
7	Effect of Impact Pressure on Reducing the Weld Residual Stress by Water Jet Peening in Repair Weld to 304 Stainless Steel Clad Plate. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2015**, 137,	1.2	20
6	Effect of Temperature Fluctuation on Creep and Failure Probability for Planar Solid Oxide Fuel Cell. *Journal of Fuel Cell Science and Technology*, **2015**, 12,		14
5	Residual stress reduction in the penetration nozzle weld joint by overlay welding. *Materials & Design*, **2014**, 60, 443-450		19
4	Bending and twisting springback prediction in the punching of the core for a lattice truss sandwich structure. *Acta Metallurgica Sinica (English Letters)*, **2013**, 26, 241-246	2.5	5
3	Creep analysis of solid oxide fuel cell with bonded compliant seal design. *Journal of Power Sources*, **2013**, 243, 913-918	8.9	14
2	Experimental to study the effect of multiple weld-repairs on microstructure, hardness and residual stress for a stainless steel clad plate. *Materials & Design*, **2013**, 51, 1052-1059		44
1	A new calculation formula to describe the dynamic pressure of water jet peening with elliptical nozzle for high-efficiency treatment. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*,095440622110586	1.3	0