

Wei Sun

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

325
citations

933264

10
h-index

887953

17
g-index

38
all docs

38
docs citations

38
times ranked

188
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental investigation of the effect of defect shape and orientation on the burst pressure of pressurised pipes. <i>Engineering Failure Analysis</i> , 2018, 93, 200-213.	1.8	42
2	Creep fracture mechanics parameters for internal axial surface cracks in pressurized cylinders and creep crack growth analysis. <i>International Journal of Pressure Vessels and Piping</i> , 2011, 88, 452-464.	1.2	24
3	Analysis and Design of a Small, Two-Bar Creep Test Specimen. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2013, 135, .	0.8	24
4	Theoretical basis and practical aspects of small specimen creep testing. <i>Journal of Strain Analysis for Engineering Design</i> , 2013, 48, 112-125.	1.0	23
5	Finite element-based analysis of experimentally identified parametric envelopes for stable keyhole plasma arc welding of a titanium alloy. <i>Journal of Strain Analysis for Engineering Design</i> , 2012, 47, 266-275.	1.0	21
6	Interpretation of small ring creep test data. <i>Journal of Strain Analysis for Engineering Design</i> , 2013, 48, 269-278.	1.0	20
7	Some considerations on specimen types for small sample creep tests. <i>Materials at High Temperatures</i> , 2010, 27, 157-165.	0.5	17
8	Determination of creep damage properties from small punch creep tests considering pre-straining effect using an inverse approach. <i>Mechanics of Materials</i> , 2019, 139, 103171.	1.7	16
9	On the Determination of Material Creep Constants Using Miniature Creep Test Specimens. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2014, 136, .	0.8	14
10	On the effects of friction modelling on small punch creep test responses: A numerical investigation. <i>Journal of Strain Analysis for Engineering Design</i> , 2016, 51, 493-506.	1.0	11
11	Small Two-Bar Specimen Creep Testing of Grade P91 Steel at 650Å°C. <i>High Temperature Materials and Processes</i> , 2016, 35, 243-252.	0.6	11
12	Effect of large deformation on creep property evaluation by small-specimen bending tests. <i>International Journal of Pressure Vessels and Piping</i> , 2016, 139-140, 194-203.	1.2	10
13	An investigation into the influence of inter-component assembly gaps upon the geometry of tack welded annular structures. <i>CIRP Annals - Manufacturing Technology</i> , 2015, 64, 1-4.	1.7	9
14	Comparison of several optimisation strategies for the determination of material constants in the Chaboche visco-plasticity model. <i>Journal of Strain Analysis for Engineering Design</i> , 2013, 48, 347-363.	1.0	8
15	Residual stress distribution in a TiAl-4V T-joint weld measured using synchrotron X-ray diffraction. <i>Journal of Strain Analysis for Engineering Design</i> , 2015, 50, 445-454.	1.0	8
16	Membrane stretching based creep damage analytical solutions for thin disc small punch problem. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 165, 104928.	2.3	8
17	An evaluation of the capability of data conversion of impression creep test. <i>Materials at High Temperatures</i> , 2017, 34, 415-424.	0.5	7
18	The effects of scoop sampling on the creep behaviour of power plant straight pipes. <i>Journal of Strain Analysis for Engineering Design</i> , 2013, 48, 494-511.	1.0	6

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19	The effects of geometrical inaccuracies of the experimental set-up on small punch creep test results. Journal of Strain Analysis for Engineering Design, 2014, 49, 571-582.	1.0	6
20	Requirements for and challenges in developing improved creep ductility-based constitutive models for tempered martensitic CSEF steels. Journal of Materials Research and Technology, 2022, 17, 3337-3360.	2.6	6
21	Correlation and capability of using site inspection data and small specimen creep testing for a service-exposed CrMoV pipe section. Materials at High Temperatures, 2019, 36, 173-186.	0.5	5
22	Creep Failure Behaviour of a 9CrMoNbV Weld Metal with Anisotropy Under a Biaxial Loading State. Journal of Strain Analysis for Engineering Design, 2006, 41, 369-380.	1.0	4
23	Indenter misalignment in impression creep test: Uncertainty, correction and recommendation. Journal of Strain Analysis for Engineering Design, 2022, 57, 84-94.	1.0	4
24	Some issues on creep damage modelling of welds with heterogeneous structures. International Journal of Mechanics and Materials in Design, 2009, 5, 327-335.	1.7	3
25	Finite element prediction of fatigue crack growth in Super CMV hollow shafts with transverse holes under combined torsional and axial loading. Journal of Strain Analysis for Engineering Design, 2013, 48, 457-469.	1.0	3
26	Cross-Weld Creep Comparison of Power Plant Steels CrMoV, P91 and P92. Journal of Pressure Vessel Technology, Transactions of the ASME, 2013, 135, .	0.4	3
27	Process modelling and optimization of keyhole plasma arc welding of thin Ti-6Al-4V. Journal of Strain Analysis for Engineering Design, 2014, 49, 410-420.	1.0	3
28	Determination of Material Parameters in the Chaboche Unified Viscoplasticity Model. Applied Mechanics and Materials, 2009, 16-19, 955-959.	0.2	2
29	Creep Behaviour of P92 and P92 Welds at 675°C. , 2012, , .		2
30	Crossed product of minimal dynamical systems on the product of the Cantor set and the torus. Journal of Functional Analysis, 2013, 265, 1105-1169.	0.7	2
31	Optimisation of material properties for the modelling of large deformation manufacturing processes using a finite element model of the Gleeble compression test. Journal of Strain Analysis for Engineering Design, 2014, 49, 429-436.	1.0	2
32	Short-term creep strain localization in 12%Cr turbine steel under biaxial stress states at 600°C via digital image correlation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143431.	2.6	1
33	Thermo-Mechanical Analysis and Lifting of Ni-Cr SPF Tool. International Journal of Material Forming, 2010, 3, 1151-1154.	0.9	0
34	Parametric Study on Fatigue Life Design of Shaft with Holes. Advanced Materials Research, 2011, 295-297, 2366-2369.	0.3	0
35	Cross-Weld Creep Comparison of Power Plant Steels CrMoV, P91 and P92. , 2012, , .		0
36	Determination of Material Constants for Creep Damage Models Using Small Two-Bar and Notched Specimens. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
37	The Local Approximation Method for Structural Optimization. Applied Mechanics and Materials, 0, 575, 854-858.	0.2	0
38	Modeling and Optimization of a Flow-Induced Piezoelectric Vibration-Based Energy Harvesting Structure. Lecture Notes in Mechanical Engineering, 2021, , 957-968.	0.3	0