

Wei Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

206
citations

9
h-index

12
g-index

38
ext. papers

252
ext. citations

1.8
avg, IF

2.99
L-index

#	Paper	IF	Citations
35	Requirements for and challenges in developing improved creep ductility-based constitutive models for tempered martensitic CSEF steels. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 3337-3360	5.5	2
34	Membrane Stretching based Creep Damage Analytical Solutions for Thin Disc Small Punch Problem. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 104928	5	0
33	Modeling and Optimization of a Flow-Induced Piezoelectric Vibration-Based Energy Harvesting Structure. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 957-968	0.4	
32	Correlation and capability of using site inspection data and small specimen creep testing for a service-exposed CrMoV pipe section. <i>Materials at High Temperatures</i> , 2019 , 36, 173-186	1.1	2
31	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	3.3	10
30	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	3.2	22
29	An evaluation of the capability of data conversion of impression creep test. <i>Materials at High Temperatures</i> , 2017 , 34, 415-424	1.1	4
28	Small Two-Bar Specimen Creep Testing of Grade P91 Steel at 650°C. <i>High Temperature Materials and Processes</i> , 2016 , 35, 243-252	0.9	3
27	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	2.4	6
26	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	1.3	6
25	Residual stress distribution in a Ti6Al4V T-joint weld measured using synchrotron X-ray diffraction. <i>Journal of Strain Analysis for Engineering Design</i> , 2015 , 50, 445-454	1.3	4
24	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	4.9	1
23	Process modelling and optimization of keyhole plasma arc welding of thin Ti-6Al-4V. <i>Journal of Strain Analysis for Engineering Design</i> , 2014 , 49, 410-420	1.3	3
22	Optimisation of material properties for the modelling of large deformation manufacturing processes using a finite element model of the Gleeble compression test. <i>Journal of Strain Analysis for Engineering Design</i> , 2014 , 49, 429-436	1.3	2
21	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,	1.8	10
20	The effects of geometrical inaccuracies of the experimental set-up on small punch creep test results. <i>Journal of Strain Analysis for Engineering Design</i> , 2014 , 49, 571-582	1.3	6
19	The Local Approximation Method for Structural Optimization. <i>Applied Mechanics and Materials</i> , 2014 , 575, 854-858	0.3	

18	Crossed product C^* -algebras of minimal dynamical systems on the product of the Cantor set and the torus. <i>Journal of Functional Analysis</i> , 2013 , 265, 1105-1169	1.4	1
17	Theoretical basis and practical aspects of small specimen creep testing. <i>Journal of Strain Analysis for Engineering Design</i> , 2013 , 48, 112-125	1.3	14
16	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	1.3	8
15	Finite element prediction of fatigue crack growth in Super CMV hollow shafts with transverse holes under combined torsional and axial loading. <i>Journal of Strain Analysis for Engineering Design</i> , 2013 , 48, 457-469	1.3	2
14	Cross-Weld Creep Comparison of Power Plant Steels CrMoV, P91 and P92. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2013 , 135,	1.2	3
13	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,	1.8	15
12	Interpretation of small ring creep test data. <i>Journal of Strain Analysis for Engineering Design</i> , 2013 , 48, 269-278	1.3	12
11	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	1.3	6
10	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	1.3	18
9	Creep Behaviour of P92 and P92 Welds at 675°C 2012 ,		2
8	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	2.4	22
7	Parametric Study on Fatigue Life Design of Shaft with Holes. <i>Advanced Materials Research</i> , 2011 , 295-297, 2366-2369	0.5	
6	Some considerations on specimen types for small sample creep tests. <i>Materials at High Temperatures</i> , 2010 , 27, 157-165	1.1	13
5	Thermo-Mechanical Analysis and Lifting of Ni-Cr SPF Tool. <i>International Journal of Material Forming</i> , 2010 , 3, 1151-1154	2	
4	Determination of Material Parameters in the Chaboche Unified Viscoplasticity Model. <i>Applied Mechanics and Materials</i> , 2009 , 16-19, 955-959	0.3	2
3	Some issues on creep damage modelling of welds with heterogeneous structures. <i>International Journal of Mechanics and Materials in Design</i> , 2009 , 5, 327-335	2.5	3
2	Creep Failure Behaviour of a 9CrMoNbV Weld Metal with Anisotropy Under a Biaxial Loading State. <i>Journal of Strain Analysis for Engineering Design</i> , 2006 , 41, 369-380	1.3	4
1	Indenter misalignment in impression creep test: Uncertainty, correction and recommendation. <i>Journal of Strain Analysis for Engineering Design</i> , 030932472199765	1.3	

