Ehsan Hosseini

List of Publications by Year
in descending order

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42 papers	1,022 citations	516710 16 h-index	434195 31 g-index
43 all docs	43 docs citations	43 times ranked	777 citing authors

#	Article	IF	Citations
1	Thermally activated dependence of fatigue behaviour of CrMnFeCoNi high entropy alloy fabricated by laser powder-bed fusion. Additive Manufacturing, 2022, 51, 102600.	3.0	3
2	The investigation of primary creep regeneration for 10%Cr martensitic steel: Unified constitutive modelling. International Journal of Mechanical Sciences, 2021, 190, 106044.	6.7	8
3	Primary creep regeneration in 10%Cr martensitic steel: In-situ and ex-situ microstructure studies. Materials and Design, 2021, 199, 109405.	7.0	6
4	Interface strength and mechanical properties of Inconel 718 processed sequentially by casting, milling, and direct metal deposition. Journal of Materials Processing Technology, 2021, 291, 117021.	6.3	24
5	In-situ and ex-situ microstructure studies and dislocation-based modelling for primary creep regeneration response of 316H stainless steel. Acta Materialia, 2021, 216, 117130.	7.9	6
6	Cyclic plasticity and fatigue damage of CrMnFeCoNi high entropy alloy fabricated by laser powder-bed fusion. Additive Manufacturing, 2020, 36, 101584.	3.0	7
7	Creep behaviour of a high chromium martensitic steel under stress varying creep loading conditions: Primary creep regeneration (PCR). International Journal of Pressure Vessels and Piping, 2020, 187, 104188.	2.6	4
8	Adaptive local-global multiscale approach for thermal simulation of the selective laser melting process. Additive Manufacturing, 2020, 36, 101518.	3.0	8
9	Effect of prior deformation on the subsequent creep and anelastic recovery behaviour of an advanced martensitic steel: Unified constitutive modelling. International Journal of Mechanical Sciences, 2020, 176, 105546.	6.7	7
10	The effect of temperature on TMF(HCF) crack initiation endurance. International Journal of Fatigue, 2020, 135, 105559.	5.7	1
11	Comparison of primary creep regeneration and anelastic recovery behaviour of 316H austenitic and 10%Cr martensitic steels. Mechanics of Materials, 2020, 148, 103474.	3.2	6
12	A review of mechanical properties of additively manufactured Inconel 718. Additive Manufacturing, 2019, 30, 100877.	3.0	211
13	Creep behaviour of AISI 316H stainless steel under stress-varying creep loading conditions: primary creep regeneration. Materials at High Temperatures, 2019, 36, 240-252.	1.0	10
14	Effect of prior deformation on the subsequent creep and anelastic recovery behaviour of an advanced martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 717, 68-77.	5.6	9
15	Stress recovery and cyclic behaviour of an Feâ€“Mnâ€“Si shape memory alloy after multiple thermal activation. Smart Materials and Structures, 2018, 27, 025009.	3.5	67
16	A temperature-dependent asymmetric constitutive model for cast irons under cyclic loading conditions. Journal of Strain Analysis for Engineering Design, 2018, 53, 106-114.	1.8	4
17	Advanced constitutive modelling for creep-fatigue assessment of high temperature components. Materials at High Temperatures, 2018, 35, 504-512.	1.0	5
18	Fatigue behavior of a Fe-Mn-Si shape memory alloy used for prestressed strengthening. Materials and Design, 2017, 133, 349-362.	7.0	104

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19	Cracking due to combined TMF and HCF loading in cast iron. International Journal of Fatigue, 2017, 99, 279-285.	5.7	10
20	Review of current status of the LICON methodology. Strength, Fracture and Complexity, 2015, 9, 61-70.	0.3	1
21	Modelling heat-to-heat variability in high temperature cyclic deformation behaviour. Materials at High Temperatures, 2015, 32, 347-354.	1.0	8
22	A review of the LICON methodology for predicting the long term creep rupture strength of materials. International Journal of Pressure Vessels and Piping, 2015, 129-130, 12-18.	2.6	1
23	Temperature and stressâ€“regime dependent primaryâ€“secondaryâ€“tertiary creep constitutive model. Materials at High Temperatures, 2015, 32, 384-389.	1.0	3
24	Temperature dependent representation for Chaboche kinematic hardening model. Materials at High Temperatures, 2015, 32, 404-412.	1.0	22
25	Exploring the applicability of the LICON methodology for the creep assessment of a dissimilar metal weld. International Journal of Pressure Vessels and Piping, 2013, 111-112, 162-172.	2.6	5
26	The LICON methodology for predicting long-time uniaxial creep rupture strength of materials. International Journal of Pressure Vessels and Piping, 2013, 111-112, 27-35.	2.6	12
27	Stress regime-dependent creep constitutive model considerations in finite element continuum damage mechanics. International Journal of Damage Mechanics, 2013, 22, 1186-1205.	4.2	38
28	Creep constitutive model considerations for high-temperature finite element numerical simulations. Journal of Strain Analysis for Engineering Design, 2012, 47, 341-349.	1.8	22
29	Experience with using the LICON methodology for predicting long term creep behaviour in materials. International Journal of Pressure Vessels and Piping, 2012, 92, 70-76.	2.6	10
30	A new microstructural model based on dislocation generation and consumption mechanisms through severe plastic deformation. Computational Materials Science, 2011, 50, 1123-1135.	3.0	31
31	Implementation of a constitutive model in finite element method for intense deformation. Materials & Design, 2011, 32, 487-494.	5.1	20
32	Modeling of induced empirical constitutive relations on materials with FCC, BCC, and HCP crystalline structures: severe plastic deformation. International Journal of Advanced Manufacturing Technology, 2010, 47, 1033-1039.	3.0	11
33	Optimum groove pressing die design to achieve desirable severely plastic deformed sheets. Materials & Design, 2010, 31, 94-103.	5.1	41
34	Integration of physically based models into FE analysis: Homogeneity of copper sheets under large plastic deformations. Computational Materials Science, 2010, 48, 166-173.	3.0	23
35	Dislocation structure and strength evolution of heavily deformed tantalum. International Journal of Refractory Metals and Hard Materials, 2009, 27, 605-610.	3.8	43
36	Stress-based model on work hardening and softening of materials at large strains: corrugation process of sheet. Journal of Materials Science, 2009, 44, 1212-1218.	3.7	17

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37	Influence of deformation during T10 treatment on microstructure/hardness/electrical conductivity of Cuâ€“Cr alloy produced in nonprotected atmosphere. Materials Science and Technology, 2009, 25, 1283-1288.	1.6	1
38	The effect of ECAP die shape on nano-structure of materials. Computational Materials Science, 2009, 44, 962-967.	3.0	45
39	A hybrid model on severe plastic deformation of copper. Computational Materials Science, 2009, 44, 1107-1115.	3.0	31
40	On the evolution of flow stress during constrained groove pressing of pure copper sheet. Computational Materials Science, 2009, 45, 855-859.	3.0	51
41	ETMB model investigation of flow softening during severe plastic deformation. Computational Materials Science, 2009, 46, 902-905.	3.0	9
42	Coupling kinetic dislocation model and Monte Carlo algorithm for recrystallized microstructure modeling of severely deformed copper. Journal of Materials Science, 2008, 43, 6081-6086.	3.7	10