David knowles

List of Publications by Year
in descending order

22 papers	125 citations	1307594 7 h-index	1372567 10 g-index
22 all docs	22 docs citations	22 times ranked	89 citing authors

#	Article	IF	Citations
1	A crystal plasticity model that accounts for grain size effects and slip system interactions on the deformation of austenitic stainless steels. International Journal of Plasticity, 2022, 152, 103249.	8.8	26
2	Correlation study on tensile properties of Cu, CuCrZr and W by small punch test and uniaxial tensile test. Fusion Engineering and Design, 2022, 177, 113061.	1.9	14
3	Evaluation of fracture toughness and residual stress in AISI 316L electron beam welds. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 2015-2032.	3.4	6
4	The effects of internal stresses on the creep deformation investigated using in-situ synchrotron diffraction and crystal plasticity modelling. International Journal of Solids and Structures, 2021, 229, 111127.	2.7	3
5	The sensitivity ranking of ductile material mechanical properties, geometrical factors, friction coefficients and damage parameters for small punch test. International Journal of Pressure Vessels and Piping, 2021, 193, 104468.	2.6	15
6	Stress Triaxiality and Lode Angle Parameter Characterization of Flat Metal Specimen with Inclined Notch. Metals, 2021, 11, 1627.	2.3	9
7	A novel insight into the primary creep regeneration behaviour of a polycrystalline material at high-temperature using in-situ neutron diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 786, 139374.	5.6	4
8	Microstructure-informed, predictive crystal plasticity finite element model of fatigue-dwells. Computational Materials Science, 2020, 183, 109823.	3.0	10
9	Development of fatigue testing system for in-situ observation of stainless steel 316 by HS-AFM & SEM. International Journal of Fatigue, 2019, 127, 1-9.	5.7	8
10	Effect of Plasticity on Creep Deformation in Type 316H Stainless Steel. , 2019, , .		2
11	The Influence of Prior Plastic Loading on the Accumulation of Creep Strain in 316H Stainless Steel. , 2019, , .		1
12	Comparison of Predicted Cyclic Creep Damage From a Multi-Material Weldment FEA Model and the Traditional R5 Volume 2/3 Weldment Approach. , 2018, , .		0
13	Methods for Complex Cracked Body Finite Element Assessments. Procedia Structural Integrity, 2018, 13, 1232-1237.	0.8	0
14	Enabling Real-Time Asset Analytics for a Cloud-Based Fiber-Optic Data Management System. , 2018, , .		5
15	A Probabilistic Approach to Predicting Pipework Failures in High Temperature Environments. , 2016, , .		0
16	Comparison of R5 and ASME NH Creep-Fatigue Damage Assessment Methodologies. , 2013, , .		4
17	Development of 7%Ni-TMCP Steel Plate for LNG Storage tanks. Yosetsu Gakkai Ronbunshu/Quarterly Journal of the Japan Welding Society, 2010, 28, 130-140.	0.5	4
18	Remnant Life Assessment of Platformer Heater T9 Tubes Using API 579 Omega Method. , 2007, , 389.		3

#	Article	IF	Citations
19	Management of cracks and defects in engineering equipment. Materials at High Temperatures, 2007, 24, 295-298.	1.0	0
20	Ligament Crack Growth in a Main Steam Superheater Outlet Header. , 2006, , 247.		0
21	Microstructural evolution of DS CM186LC during creep and thermal exposure. Metals and Materials International, 2000, 6, 117-123.	0.2	2
22	High temperature mechanical properities and creep crack initiation of DS CM186LC for nozzle guide vane. Metals and Materials International, 1998, 4, 1017-1025.	0.2	9