

Mark Whittaker

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

419
citations

933264

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839398

18
g-index

23
all docs

23
docs citations

23
times ranked

341
citing authors

#	ARTICLE	IF	CITATIONS
1	The dislocation behaviour and GND development in a nickel based superalloy during creep. International Journal of Plasticity, 2019, 118, 252-268.	4.1	126
2	A Critical Analysis of the Conventionally Employed Creep Lifing Methods. Materials, 2014, 7, 3371-3398.	1.3	49
3	Microstructural characterisation of a nickel alloy processed via blown powder direct laser deposition (DLD). Materials and Design, 2017, 117, 47-57.	3.3	33
4	Creep Deformation by Dislocation Movement in Waspaloy. Materials, 2017, 10, 61.	1.3	30
5	The influence of phase angle, strain range and peak cycle temperature on the TMF crack initiation behaviour and damage mechanisms of the nickel-based superalloy, RR1000. International Journal of Fatigue, 2017, 98, 279-285.	2.8	28
6	Recent Advances in Creep Modelling of the Nickel Base Superalloy, Alloy 720Li. Materials, 2013, 6, 1118-1137.	1.3	27
7	A Model for Creep and Creep Damage in the β -Titanium Aluminide Ti-45Al-2Mn-2Nb. Materials, 2014, 7, 2194-2209.	1.3	23
8	Boride formation behaviour and their effect on tensile ductility in cast TiAl-based alloys. Materials and Design, 2020, 195, 109064.	3.3	20
9	The effects of energy density and heat treatment on the microstructure and mechanical properties of laser additive manufactured Haynes 282. Materials and Design, 2021, 205, 109725.	3.3	20
10	The effect of prestrain on low and high temperature creep in Ti834. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6683-6689.	2.6	16
11	Development and Assessment of a New Empirical Model for Predicting Full Creep Curves. Materials, 2015, 8, 4582-4592.	1.3	12
12	3D DDD modelling of dislocation-precipitate interaction in a nickel-based single crystal superalloy under cyclic deformation. Philosophical Magazine, 2018, 98, 1550-1575.	0.7	10
13	An Empirical Approach to Correlating Thermo-Mechanical Fatigue Behaviour of a Polycrystalline Ni-Base Superalloy. Materials, 2013, 6, 5275-5290.	1.3	7
14	Titanium Alloys. Metals, 2015, 5, 1437-1439.	1.0	6
15	Ni-Based Superalloys. , 0, , .		4
16	Alloying effect on solidification behaviour and grain refinement in Ti45Al2Nb2Ta0.8B and Ti45Al2Nb2Hf0.8B. Intermetallics, 2020, 127, 106984.	1.8	3
17	Lifing the thermo-mechanical fatigue (TMF) behaviour of the polycrystalline nickel-based superalloy RR1000. MATEC Web of Conferences, 2014, 14, 19001.	0.1	2
18	The Effect of Phase Angle on the Thermo-Mechanical Fatigue Life of a Titanium Metal Matrix Composite. Materials, 2019, 12, 953.	1.3	2

#	ARTICLE	IF	CITATIONS
19	Titanium Alloys 2017. Metals, 2018, 8, 319.	1.0	1
20	International Conference on Fatigue Damage of Structural Materials. International Journal of Fatigue, 2016, 82, 119.	2.8	0
21	Advanced Methods for Creep in Engineering Design. , 2018, , .		0
22	A Modern Philosophy for Creep Lifting in Engineering Alloys. , 0, , .		0