Jennifer L W Carter

List of Publications by Year
in descending order

21 papers	263 citations	1040056 9 h-index	940533 16 g-index
21 all docs	21 docs citations	21 times ranked	253 citing authors

#	Article	IF	Citations
1	In-Situ Mechanical Testing for Characterizing Strain Localization During Deformation at Elevated Temperatures. Experimental Mechanics, 2012, 52, 405-416.	2.0	56
2	Characterization of localized deformation near grain boundaries of superalloy RenÃ©-104 at elevated temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 605, 127-136.	5.6	42
3	Mapping Multivariate Influence of Alloying Elements on Creep Behavior for Design of New Martensitic Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3106-3120.	2.2	28
4	EBSD Analysis for Microstructure Characterization of Zr-based Bulk Metallic Glass Composites. Microscopy and Microanalysis, 2014, 20, 852-853.	0.4	23
5	Predictions of long-term creep life for the family of 9â€“12 wt% Cr martensitic steels. Journal of Alloys and Compounds, 2020, 815, 152417.	5.5	13
6	Low-Cycle Fatigue of Ultra-Fine-Grained Cryomilled 5083 Aluminum Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2622-2630.	2.2	12
7	Screening of heritage data for improving toughness of creep-resistant martensitic steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138142.	5.6	12
8	Influence of processing on the microstructure of Cuâ€“8Crâ€“4Nb. Journal of Materials Science, 2008, 43, 6546-6555.	3.7	11
9	The influence of post-processing on creep and microstructure of rolled Cuâ€“8Crâ€“4Nb. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6956-6962.	5.6	11
10	Materials data analytics for 9% Cr family steel. Statistical Analysis and Data Mining, 2019, 12, 290-301.	2.8	9
11	Computer Vision Approaches for Segmentation of Nanoscale Precipitates in Nickel-Based Superalloy IN718. Integrating Materials and Manufacturing Innovation, 2020, 9, 446-458.	2.6	8
12	Exploration of the sliding behavior of a Î£11 grain boundary with precipitates in Niâ€“Al system using molecular dynamics. Materialia, 2019, 7, 100383.	2.7	7
13	The potential link between high angle grain boundary morphology and grain boundary deformation in a nickel-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 640, 280-286.	5.6	5
14	Physics-Informed Network Models: a Data Science Approach to Metal Design. Integrating Materials and Manufacturing Innovation, 2017, 6, 279-287.	2.6	5
15	A statistical study of the effects of processing upon the creep properties of GRCop-84. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 640, 1-15.	5.6	4
16	Effects of Changes in Test Temperature on Tensile Properties and Notched Vs Fatigue Precracked Toughness of a Zr-Based BMG Composite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3220-3230.	2.2	4
17	Harnessing Legacy Data to Educate Data-Enabled Structural Materials Engineers. MRS Advances, 2020, 5, 319-327.	0.9	4
18	Inâ€situ observation of AlN formation from Niâ€Al solution using an electromagnetic levitation technique. Journal of the American Ceramic Society, 2020, 103, 2389-2398.	3.8	3

#	Article	IF	Citations
19	A Data-Driven Framework to Select a Cost-Efficient Subset of Parameters to Qualify Sourced Materials. Integrating Materials and Manufacturing Innovation, 2022, 11, 339-351.	2.6	3
20	Informatics-Enabled Design of Structural Materials. Jom, 2021, 73, 3323-3325.	1.9	2
21	An improved method for calculation of elastic constants of metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 634, 183-187.	5.6	1