Michael A Groeber

List of Publications by Year
in descending order

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Version: 2024-02-01

17	1,367	840776 11	996975 15
papers	citations	h-index	g-index

19	19	19	1275
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DREAM.3D: A Digital Representation Environment for the Analysis of Microstructure in 3D. Integrating Materials and Manufacturing Innovation, 2014, 3, 56-72.	2.6	658
2	3D microstructural characterization of nickel superalloys via serial-sectioning using a dual beam FIB-SEM. Scripta Materialia, 2006, 55, 23-28.	5.2	240
3	A framework for automated analysis and simulation of 3D polycrystalline microstructures. Part 2: Synthetic structure generationâ˜†. Acta Materialia, 2008, 56, 1274-1287.	7.9	192
4	Identifying Structureâ€“Property Relationships Through DREAM.3D Representative Volume Elements and DAMASK Crystal Plasticity Simulations: An Integrated Computational Materials Engineering Approach. Jom, 2017, 69, 848-855.	1.9	71
5	A discrete source model of powder bed fusion additive manufacturing thermal history. Additive Manufacturing, 2019, 25, 485-498.	3.0	38
6	Zoning additive manufacturing process histories using unsupervised machine learning. Materials Characterization, 2020, 161, 110123.	4.4	35
7	Tail Departure of Log-Normal Grain Size Distributions in Synthetic Three-Dimensional Microstructures. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 2810-2822.	2.2	31
8	Comparison of grain size distributions in a Ni-based superalloy in three and two dimensions using the Saltykov method. Scripta Materialia, 2012, 66, 554-557.	5.2	31
9	Developing a robust 3-D characterization-representation framework for modeling polycrystalline materials. Jom, 2007, 59, 32-36.	1.9	20
10	Laser Powder Bed Fusion Parameter Selection via Machine-Learning-Augmented Process Modeling. Jom, 2020, 72, 4393-4403.	1.9	15
11	Associating local microstructure with predicted thermally-induced stress hotspots using convolutional neural networks. Materials Characterization, 2019, 158, 109960.	4.4	13
12	Modeling the effect of voxel resolution on the accuracy of phantom grain ensemble statistics. Materials Characterization, 2014, 90, 136-150.	4.4	6
13	Multimodal Registration and Fusion of In Situ and Ex Situ Metal Additive Manufacturing Data. Jom, 2021, 73, 3250-3262.	1.9	6
14	Developing Virtual Microstructures and Statistically Equivalent Representative Volume Elements for Polycrystalline Materials. , 2020, , 1631-1656.		4
15	Towards In-process Prediction of Voids in Laser Powder Bed Fusion. Jom, 2021, 73, 3240-3249.	1.9	2
16	AFRL Additive Manufacturing Modeling Series: Challenge 1, Characterization of Residual Strain Distribution in Additively-Manufactured Metal Parts Using Energy-Dispersive Diffraction. Integrating Materials and Manufacturing Innovation, 2021, 10, 525.	2.6	2
17	Developing Virtual Microstructures and Statistically Equivalent Representative Volume Elements for Polycrystalline Materials. , 2018, , 1-26.		1