John W Gibbs

List of Publications by Year
in descending order

19	1,452	758635 12	940134 16
papers	citations	h-index	g-index

22	22	22	1784
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observation of keyhole-mode laser melting in laser powder-bed fusion additive manufacturing. Journal of Materials Processing Technology, 2014, 214, 2915-2925.	3.1	1,007
2	TIMBIR: A Method for Time-Space Reconstruction From Interlaced Views. IEEE Transactions on Computational Imaging, 2015, 1, 96-111.	2.6	80
3	Rapid solidification growth mode transitions in Al-Si alloys by dynamic transmission electron microscopy. Acta Materialia, 2017, 131, 22-30.	3.8	58
4	Time-Resolved In Situ Measurements During Rapid Alloy Solidification: Experimental Insight for Additive Manufacturing. Jom, 2016, 68, 985-999.	0.9	53
5	Observing the microstructural evolution of Ni-Yttria-stabilized zirconia solid oxide fuel cell anodes. Acta Materialia, 2016, 103, 204-210.	3.8	44
6	Solid fraction measurement using equation-based cooling curve analysis. Scripta Materialia, 2008, 58, 699-702.	2.6	31
7	Determining material parameters using phase-field simulations and experiments. Acta Materialia, 2017, 129, 229-238.	3.8	31
8	Three-Dimensional Multiscale Modeling of Dendritic Spacing Selection During Al-Si Directional Solidification. Jom, 2015, 67, 1776-1785.	0.9	29
9	In Situ X-Ray Observations of Dendritic Fragmentation During Directional Solidification of a Sn-Bi Alloy. Jom, 2016, 68, 170-177.	0.9	24
10	Analytics on large microstructure datasets using two-point spatial correlations: Coarsening of dendritic structures. Acta Materialia, 2017, 132, 374-388.	3.8	20
11	Cooling Curve Analysis to Determine Phase Fractions in Solid-State Precipitation Reactions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2216-2223.	1.1	18
12	Coarsening of complex microstructures following spinodal decomposition. Acta Materialia, 2017, 132, 13-24.	3.8	15
13	Four-Dimensional Morphological Evolution of an Aluminum Silicon Alloy Using Propagation-Based Phase Contrast X-ray Tomographic Microscopy. Materials Transactions, 2014, 55, 161-164.	0.4	11
14	Cooling Curve Analysis as an Alternative to Dilatometry in Continuous Cooling Transformations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 148-155.	1.1	11
15	Segmentation of four-dimensional, X-ray computed tomography data. Integrating Materials and Manufacturing Innovation, 2014, 3, 73-84.	1.2	9
16	4D model-based iterative reconstruction from interlaced views. , 2015, , .		5
17	Integrated approach to the data processing of four-dimensional datasets from phase-contrast x-ray tomography. Optics Express, 2014, 22, 24606.	1.7	4
18	Martensite Fraction Determination Using Cooling Curve Analysis. Solid State Phenomena, 0, 172-174, 221-226.	0.3	2

#	Article	IF	Citations
19	Imaging the Rapid Solidification of Metallic Alloys in the TEM. Microscopy and Microanalysis, 2015, 21, 469-470.	0.2	0