

# John W Gibbs

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2505290/publications.pdf>

Version: 2024-02-01

19  
papers

1,452  
citations

758635

12  
h-index

940134

16  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1784  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determining material parameters using phase-field simulations and experiments. Acta Materialia, 2017, 129, 229-238.	3.8	31
2	Analytics on large microstructure datasets using two-point spatial correlations: Coarsening of dendritic structures. Acta Materialia, 2017, 132, 374-388.	3.8	20
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	Coarsening of complex microstructures following spinodal decomposition. Acta Materialia, 2017, 132, 13-24.	3.8	15
5	Time-Resolved In Situ Measurements During Rapid Alloy Solidification: Experimental Insight for Additive Manufacturing. Jom, 2016, 68, 985-999.	0.9	53
6	In Situ X-Ray Observations of Dendritic Fragmentation During Directional Solidification of a Sn-Bi Alloy. Jom, 2016, 68, 170-177.	0.9	24
7	Observing the microstructural evolution of Ni-Yttria-stabilized zirconia solid oxide fuel cell anodes. Acta Materialia, 2016, 103, 204-210.	3.8	44
8	Imaging the Rapid Solidification of Metallic Alloys in the TEM. Microscopy and Microanalysis, 2015, 21, 469-470.	0.2	0
9	4D model-based iterative reconstruction from interlaced views. , 2015, , .		5
10	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
11	TIMBIR: A Method for Time-Space Reconstruction From Interlaced Views. IEEE Transactions on Computational Imaging, 2015, 1, 96-111.	2.6	80
12	Three-Dimensional Multiscale Modeling of Dendritic Spacing Selection During Al-Si Directional Solidification. Jom, 2015, 67, 1776-1785.	0.9	29
13	Integrated approach to the data processing of four-dimensional datasets from phase-contrast x-ray tomography. Optics Express, 2014, 22, 24606.	1.7	4
14	Segmentation of four-dimensional, X-ray computed tomography data. Integrating Materials and Manufacturing Innovation, 2014, 3, 73-84.	1.2	9
15	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
16	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
17	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
18	Solid fraction measurement using equation-based cooling curve analysis. Scripta Materialia, 2008, 58, 699-702.	2.6	31

#	ARTICLE	IF	CITATIONS
19	Martensite Fraction Determination Using Cooling Curve Analysis. Solid State Phenomena, 0, 172-174, 221-226.	0.3	2