

Matthew Krane

List of Publications by Year in descending order

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papers

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citations

1307594

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12
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18
all docs

18
docs citations

18
times ranked

139
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale prediction of microstructure length scales in metallic alloy casting. Acta Materialia, 2021, 207, 116686.	7.9	22
2	Sensitivity of Thermal Predictions to Uncertain Surface Tension Data in Laser Additive Manufacturing. Journal of Heat Transfer, 2020, 142, .	2.1	21
3	Laser transformation hardening of TiAl4V in solid state with accompanying kinetic model. Surface Engineering, 2007, 23, 78-82.	2.2	20
4	On the numerical prediction of channel segregation. International Journal of Heat and Mass Transfer, 2016, 100, 11-23.	4.8	15
5	A continuum grain attachment model for simulations of equiaxed solidification. Computational Materials Science, 2016, 124, 238-248.	3.0	11
6	The effect of velocity based packing schemes on macrosegregation development in simulations of equiaxed solidification. Applied Mathematical Modelling, 2016, 40, 9212-9227.	4.2	10
7	Characterisation of the structure and thermophysical properties of solid electroslag remelting slags. Materials Science and Technology, 2016, 32, 1249-1263.	1.6	9
8	Quantification of Epistemic Uncertainty in Grain Attachment Models for Equiaxed Solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1636-1651.	2.1	9
9	Materials informatics: Facilitating the integration of data-driven materials research with education. Jom, 2008, 60, 51-52.	1.9	8
10	Macrosegregation in horizontal direct chill casting of ternary Al alloys: Investigation of solid motion. IOP Conference Series: Materials Science and Engineering, 2012, 27, 012069.	0.6	6
11	Influence of riser design on macrosegregation in static castings. International Journal of Cast Metals Research, 2015, 28, 28-38.	1.0	6
12	Estimation of transient heat transfer and fluid flow for alloy solidification in a rectangular cavity with an isothermal sidewall. Journal of Fluid Mechanics, 2015, 779, 53-86.	3.4	5
13	Effect of Solute Elements on Boron Segregation in Boron-Containing Steels. ISIJ International, 2020, 60, 92-98.	1.4	4
14	Influence of liquid metal feeding on the flow and macrosegregation in DC casting. Materials Science and Technology, 2020, 36, 393-402.	1.6	4
15	The discrete nature of grain attachment models in simulations of equiaxed solidification. Applied Mathematical Modelling, 2017, 47, 31-44.	4.2	3
16	Work in Progress - Implementation of a Unified Materials Processing Laboratory Course. , 0, , .		0