

Matthew Krane

List of Publications by Year in descending order

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papers

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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 | Effect of Solute Elements on Boron Segregation in Boron-Containing Steels. ISIJ International, 2020, 60, 92-98. | 1.4 | 4 |
| 3 | Influence of liquid metal feeding on the flow and macrosegregation in DC casting. Materials Science and Technology, 2020, 36, 393-402. | 1.6 | 4 |
| 4 | Sensitivity of Thermal Predictions to Uncertain Surface Tension Data in Laser Additive Manufacturing. Journal of Heat Transfer, 2020, 142, . | 2.1 | 21 |
| 5 | 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 |
| 6 | The discrete nature of grain attachment models in simulations of equiaxed solidification. Applied Mathematical Modelling, 2017, 47, 31-44. | 4.2 | 3 |
| 7 | On the numerical prediction of channel segregation. International Journal of Heat and Mass Transfer, 2016, 100, 11-23. | 4.8 | 15 |
| 8 | 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 |
| 9 | A continuum grain attachment model for simulations of equiaxed solidification. Computational Materials Science, 2016, 124, 238-248. | 3.0 | 11 |
| 10 | Characterisation of the structure and thermophysical properties of solid electroslag remelting slags. Materials Science and Technology, 2016, 32, 1249-1263. | 1.6 | 9 |
| 11 | 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 |
| 12 | Influence of riser design on macrosegregation in static castings. International Journal of Cast Metals Research, 2015, 28, 28-38. | 1.0 | 6 |
| 13 | 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 |
| 14 | Materials informatics: Facilitating the integration of data-driven materials research with education. Jom, 2008, 60, 51-52. | 1.9 | 8 |
| 15 | Laser transformation hardening of Ti-6Al-4V in solid state with accompanying kinetic model. Surface Engineering, 2007, 23, 78-82. | 2.2 | 20 |
| 16 | Work in Progress - Implementation of a Unified Materials Processing Laboratory Course. , 0, , . | | 0 |