Lang Yuan

List of Publications by Year in descending order

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LANC VUAN

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | In-process failure analysis of thin-wall structures made by laser powder bed fusion additive manufacturing. Journal of Materials Science and Technology, 2022, 98, 233-243. | 10.7 | 27 |
| 2 | Machine learning algorithms for defect detection in metal laser-based additive manufacturing: A review. Journal of Manufacturing Processes, 2022, 75, 693-710. | 5.9 | 86 |
| 3 | Effect of Build Height on Micro-cracking of Additively Manufactured Superalloy RENÉ 108 Thin-Wall Components. Minerals, Metals and Materials Series, 2022, , 985-993. | 0.4 | 2 |
| 4 | A Numerical Approach to Model Microstructure Evolution for NiTi Shape Memory Alloy in Laser Powder Bed Fusion Additive Manufacturing. Integrating Materials and Manufacturing Innovation, 2022, 11, 121-138. | 2.6 | 7 |
| 5 | In situ monitoring for fused filament fabrication process: A review. Additive Manufacturing, 2021, 38, 101749. | 3.0 | 39 |
| 6 | An Efficient Track-Scale Model for Laser Powder Bed Fusion Additive Manufacturing: Part 1- Thermal Model. Frontiers in Materials, 2021, 8, . | 2.4 | 7 |
| 7 | An Efficient Track-Scale Model for Laser Powder Bed Fusion Additive Manufacturing: Part 2—Mechanical Model. Frontiers in Materials, 2021, 8, . | 2.4 | 6 |
| 8 | Towards prediction of microstructure during laser based additive manufacturing process of Co-Cr-Mo powder beds. Materials and Design, 2020, 196, 109117. | 7.0 | 15 |
| 9 | Solidification Behavior in the Presence of External Fields: Part I. Jom, 2020, 72, 3608-3609. | 1.9 | 0 |
| 10 | Towards understanding grain nucleation under Additive Manufacturing solidification conditions. Acta Materialia, 2020, 195, 392-403. | 7.9 | 127 |
| 11 | Columnar-to-equiaxed transition in a laser scan for metal additive manufacturing. IOP Conference Series: Materials Science and Engineering, 2020, 861, 012007. | 0.6 | 6 |
| 12 | Fluid Dynamics Effects on Microstructure Prediction in Single-Laser Tracks for Additive Manufacturing of IN625. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1263-1281. | 2.1 | 14 |
| 13 | Grain Structure Prediction for Directionally Solidified Superalloy Castings. Jom, 2020, 72, 1785-1793. | 1.9 | 7 |
| 14 | Revealing the Mechanisms of Grain Nucleation and Formation During Additive Manufacturing. Jom, 2020, 72, 1065-1073. | 1.9 | 66 |
| 15 | Solidification Behavior in the Presence of External Fields: Part II. Jom, 2020, 72, 4069-4070. | 1.9 | 0 |
| 16 | Solidification Defects in Additive Manufactured Materials. Jom, 2019, 71, 3221-3222. | 1.9 | 20 |
| 17 | Numerical simulation of wave-like nucleation events. IOP Conference Series: Materials Science and Engineering, 2019, 529, 012043. | 0.6 | 2 |
| 18 | Neutron residual stress measurement and numerical modeling in a curved thin-walled structure by laser powder bed fusion additive manufacturing. Materials and Design, 2017, 135, 122-132. | 7.0 | 106 |

Lang Yuan

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|----|--|-----|-----------|
| 19 | Calculation of Physical Properties for Use in Models of Continuous Casting Process-Part 1: Mould Slags. ISIJ International, 2016, 56, 264-273. | 1.4 | 54 |
| 20 | Calculation of Physical Properties for Use in Models of Continuous Casting Process-Part 2: Steels. ISIJ International, 2016, 56, 274-281. | 1.4 | 13 |
| 21 | The effect of the melt thermal gradient on the size of the constitutionally supercooled zone. IOP Conference Series: Materials Science and Engineering, 2016, 117, 012001. | 0.6 | 5 |
| 22 | Modeling of time dependent localized flow shear stress and its impact on cellular growth within additive manufactured titanium implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1689-1699. | 3.4 | 19 |
| 23 | 3-D microstructural model of freckle formation validated using in situ experiments. Acta Materialia, 2014, 79, 168-180. | 7.9 | 95 |
| 24 | Synchrotron Radiography Studies of Shear-Induced Dilation in Semisolid Al Alloys and Steels. Jom, 2014, 66, 1415-1424. | 1.9 | 13 |
| 25 | In situ synchrotron tomographic quantification of granular and intragranular deformation during semi-solid compression of an equiaxed dendritic Al–Cu alloy. Acta Materialia, 2014, 76, 371-380. | 7.9 | 84 |
| 26 | Simulation of diffusion-limited lateral growth of dendrites during solidification via liquid metal cooling. Acta Materialia, 2014, 69, 47-59. | 7.9 | 28 |
| 27 | The Interdependence model of grain nucleation: A numerical analysis of the Nucleation-Free Zone. Acta Materialia, 2013, 61, 5914-5927. | 7.9 | 60 |
| 28 | A Multiscale 3D Model of the Vacuum Arc Remelting Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5365-5376. | 2.2 | 34 |
| 29 | A Review of the Factors Affecting the Thermophysical Properties of Silicate Slags. High Temperature Materials and Processes, 2012, 31, 301-321. | 1.4 | 46 |
| 30 | A new mechanism for freckle initiation based on microstructural level simulation. Acta Materialia, 2012, 60, 4917-4926. | 7.9 | 119 |
| 31 | Numerical study of dendrite coherency during equiaxed solidification by the Discrete Element Method. IOP Conference Series: Materials Science and Engineering, 2012, 33, 012071. | 0.6 | 1 |
| 32 | Exploring dendrite coherency with the discrete element method. Acta Materialia, 2012, 60, 1334-1345. | 7.9 | 43 |
| 33 | Dendritic solidification under natural and forced convection in binary alloys: 2D versus 3D simulation. Modelling and Simulation in Materials Science and Engineering, 2010, 18, 055008. | 2.0 | 113 |
| 34 | Microstructural Simulations of the Influence of Solidification Velocity on Freckle Initiation during Directional Solidification. ISIJ International, 2010, 50, 1814-1818. | 1.4 | 16 |
| 35 | Numerical simulation of the effect of fluid flow on solute distribution and dendritic morphology. International Journal of Cast Metals Research, 2009, 22, 204-207. | 1.0 | 20 |
| 36 | MULTISCALE MODELING OF THE VACUUM ARC REMELTING PROCESS FOR THE PREDICTION ON MICROSTRUCTURE FORMATION. International Journal of Modern Physics B, 2009, 23, 1584-1590. | 2.0 | 20 |

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|----|--|-----|-----------|
| 37 | Improvement of the Interdependence Analytical Model through Selection of Interfacial Growth Rates during the Initial Transient. Materials Science Forum, 0, 765, 77-81. | 0.3 | 2 |
| 38 | On the Solute Diffusion Length in the Interdependence Model: Dendritic versus Non-Dendritic Interface. Materials Science Forum, 0, 828-829, 461-467. | 0.3 | 0 |