Mingming Tong

List of Publications by Year
in descending order

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32	670	687363 13	580821 25
papers	citations	h-index	g-index

32	32	32	586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revealing internal flow behaviour in arc welding and additive manufacturing of metals. Nature Communications, 2018, 9, 5414.	12.8	158
2	Coupled simulation of the influence of austenite deformation on the subsequent isothermal austeniteâ€“ferrite transformation. Acta Materialia, 2006, 54, 1265-1278.	7.9	68
3	Monte carlo-method simulation of the deformation-induced ferrite transformation in the Fe-C system. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1565-1577.	2.2	43
4	Modeling the austeniteâ€“ferrite diffusive transformation during continuous cooling on a mesoscale using Monte Carlo method. Acta Materialia, 2004, 52, 1155-1162.	7.9	42
5	Resolution, energy and time dependency on layer scaling in finite element modelling of laser beam powder bed fusion additive manufacturing. Additive Manufacturing, 2019, 28, 610-620.	3.0	40
6	An incompressible multi-phase smoothed particle hydrodynamics (SPH) method for modelling thermocapillary flow. International Journal of Heat and Mass Transfer, 2014, 73, 284-292.	4.8	36
7	Towards a process-structure model for Ti-6Al-4V during additive manufacturing. Journal of Manufacturing Processes, 2021, 61, 428-439.	5.9	33
8	Scanning strategies effect on temperature, residual stress and deformation by multi-laser beam powder bed fusion manufacturing. Additive Manufacturing, 2020, 36, 101507.	3.0	29
9	Modelling the creation and destruction of columnar and equiaxed zones during solidification and melting in multi-pass welding of steel. Computational Materials Science, 2015, 97, 285-294.	3.0	23
10	Direct numerical simulation of meltâ€“gas hydrodynamic interactions during the early stage of atomisation of liquid intermetallic. Journal of Materials Processing Technology, 2008, 202, 419-427.	6.3	22
11	A q-state Potts model-based Monte Carlo method used to model the isothermal austenite?ferrite transformation under non-equilibrium interface condition. Acta Materialia, 2005, 53, 1485-1497.	7.9	17
12	Temporal oscillatory behavior in deformation induced ferrite transformation in an Feâ€“C binary system. Scripta Materialia, 2004, 50, 909-913.	5.2	16
13	An integrated model for the post-solidification shape and grain morphology of fusion welds. International Journal of Heat and Mass Transfer, 2015, 85, 667-678.	4.8	16
14	Modelling compressible gas flow near the nozzle of a gas atomiser using a new unified model. Computers and Fluids, 2009, 38, 1183-1190.	2.5	14
15	Multiscale, Multiphysics Numerical Modeling of Fusion Welding with Experimental Characterization and Validation. Jom, 2013, 65, 99-106.	1.9	13
16	Prediction of Microstructure Evolution for Additive Manufacturing of Ti-6Al-4V. Procedia Manufacturing, 2020, 47, 1178-1183.	1.9	13
17	Smoothed particle hydrodynamics modelling of the fluid flow and heat transfer in the weld pool during laser spot welding. IOP Conference Series: Materials Science and Engineering, 2012, 27, 012080.	0.6	11
18	Elimination of porosity in bulk metallic glass castings using hot isostatic pressing. Journal of Non-Crystalline Solids, 2017, 468, 5-11.	3.1	11

#	Article	IF	Citations
19	Identification of key liquid metal flow features in the physical conditioning of molten aluminium alloy with high shear processing. Computational Materials Science, 2017, 131, 35-43.	3.0	11
20	Modeling the austenite-ferrite isothermal transformation in an Fe-C binary system and experimental verification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 3111-3115.	2.2	9
21	Data on a computationally efficient approximation of part-powder conduction as surface free convection in powder bed fusion process modelling. Data in Brief, 2019, 27, 104559.	1.0	9
22	Verification of a front-tracking model of two-fluid interface Kelvin-Helmholtz instability by study of travelling waves. Communications in Numerical Methods in Engineering, 2007, 24, 1171-1181.	1.3	7
23	Multipart Build Effects on Temperature and Residual Stress by Laser Beam Powder Bed Fusion Additive Manufacturing. 3D Printing and Additive Manufacturing, 2023, 10, 749-761.	2.9	6
24	A Multi-Scale Approach to Simulate Solidification Structure Evolution and Solute Segregation in a Weld Pool. Journal of Algorithms and Computational Technology, 2013, 7, 489-507.	0.7	5
25	Material Characterisation and Computational Thermal Modelling of Electron Beam Powder Bed Fusion Additive Manufacturing of Ti2448 Titanium Alloy. Materials, 2021, 14, 7359.	2.9	5
26	Geometry and Topology of Two-Dimensional Dry Foams: Computer Simulation and Experimental Characterization. Langmuir, 2017, 33, 3839-3846.	3.5	3
27	Industrial Applications of Smoothed Particle Hydrodynamics. International Journal of Computational Fluid Dynamics, 2021, 35, 1-2.	1.2	3
28	The size of films in dry foams. Journal of Physics Condensed Matter, 2010, 22, 155109.	1.8	2
29	Dissolution of delta phase in Ni-based superalloy during linear friction welding: integrated multiphysics computational process modelling. International Journal of Advanced Manufacturing Technology, 2021, 116, 241-258.	3.0	2
30	The Scale-Up of High Shear Processing for the Purification of Recycled Molten Scrap Aluminium Alloy: Key Features of Fluid Flow. Minerals, Metals and Materials Series, 2017, , 1123-1129.	0.4	2
31	Computational modelling of dynamic recrystallisation of Ni-based superalloy during linear friction welding. International Journal of Advanced Manufacturing Technology, 2022, 119, 4461-4484.	3.0	1
32	Direct Modeling of the Simultaneous Flow of Compressible Atomizing Gas Jets and a Weakly Compressible Liquid Intermetallic Stream During Gas Atomization. Materials Research Society Symposia Proceedings, 2008, 1128, 55201.	0.1	0