

Thomas F Flint

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

16
papers

144
citations

7
h-index

11
g-index

16
ext. papers

206
ext. citations

4.1
avg, IF

3.11
L-index

#	Paper	IF	Citations
16	Extension of the double-ellipsoidal heat source model to narrow-groove and keyhole weld configurations. <i>Journal of Materials Processing Technology</i> , 2017 , 246, 123-135	5.3	36
15	Effects of dilution on alloy content and microstructure in multi-pass steel welds. <i>Journal of Materials Processing Technology</i> , 2019 , 265, 71-86	5.3	26
14	Semi-analytical solutions for the transient temperature fields induced by a moving heat source in an orthogonal domain. <i>International Journal of Thermal Sciences</i> , 2018 , 123, 140-150	4.1	16
13	Characterisation and modelling of tempering during multi-pass welding. <i>Journal of Materials Processing Technology</i> , 2019 , 270, 118-131	5.3	16
12	Prediction of grain structure evolution during rapid solidification of high energy density beam induced re-melting. <i>Materials and Design</i> , 2018 , 147, 200-210	8.1	9
11	A thermal fluid dynamics framework applied to multi-component substrates experiencing fusion and vaporisation state transitions. <i>Communications Physics</i> , 2020 , 3,	5.4	9
10	A semi-analytical solution for the transient temperature field generated by a volumetric heat source developed for the simulation of friction stir welding. <i>International Journal of Thermal Sciences</i> , 2019 , 138, 586-595	4.1	9
9	Phase-Field Simulation of Grain Boundary Evolution In Microstructures Containing Second-Phase Particles with Heterogeneous Thermal Properties. <i>Scientific Reports</i> , 2019 , 9, 18426	4.9	7
8	Prediction of Dilution and Its Impact on the Metallurgical and Mechanical Behavior of a Multipass Steel Weldment. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2019 , 141,	1.2	5
7	Effects of dilution on the hardness and residual stresses in multipass steel weldments. <i>International Journal of Pressure Vessels and Piping</i> , 2020 , 187, 104154	2.4	5
6	HEDSATS: High energy density semi-analytical thermal solutions. <i>SoftwareX</i> , 2019 , 10, 100243	2.7	2
5	Modelling of Dilution Effects on Microstructure and Residual Stress in a Multi-Pass Weldment 2018 ,		2
4	Magneto-hydrodynamics of multi-phase flows in heterogeneous systems with large property gradients. <i>Scientific Reports</i> , 2021 , 11, 18998	4.9	1
3	beamWeldFoam: Numerical simulation of high energy density fusion and vapourisation-inducing processes. <i>SoftwareX</i> , 2022 , 18, 101065	2.7	1
2	A fundamental analysis of factors affecting chemical homogeneity in the laser powder bed fusion process. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 194, 122985	4.9	0
1	Electron beam weld modelling of ferritic steel: effect of prior-austenite grain size on transformation kinetics. <i>Procedia Manufacturing</i> , 2020 , 51, 842-847	1.5	