

Thomas F Flint

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2689569/thomas-f-flint-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	beamWeldFoam: Numerical simulation of high energy density fusion and vapourisation-inducing processes. <i>SoftwareX</i> , 2022 , 18, 101065	2.7	1
15	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
14	Magneto-hydrodynamics of multi-phase flows in heterogeneous systems with large property gradients. <i>Scientific Reports</i> , 2021 , 11, 18998	4.9	1
13	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	
12	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
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	HEDSATS: High energy density semi-analytical thermal solutions. <i>SoftwareX</i> , 2019 , 10, 100243	2.7	2
9	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
8	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
7	Characterisation and modelling of tempering during multi-pass welding. <i>Journal of Materials Processing Technology</i> , 2019 , 270, 118-131	5.3	16
6	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
5	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
4	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
3	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
2	Modelling of Dilution Effects on Microstructure and Residual Stress in a Multi-Pass Weldment 2018 ,		2
1	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