Tuhin Mukherjee

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/178111/publications.pdf Version: 2024-02-01



TITHIN MUKHEDIEE

#	Article	IF	CITATIONS
1	Crack free metal printing using physics informed machine learning. Acta Materialia, 2022, 226, 117612.	7.9	22
2	High-throughput screening of surface roughness during additive manufacturing. Journal of Manufacturing Processes, 2022, 81, 65-77.	5.9	6
3	Mechanistic models for additive manufacturing of metallic components. Progress in Materials Science, 2021, 116, 100703.	32.8	246
4	Metallurgy, mechanistic models and machine learning in metal printing. Nature Reviews Materials, 2021, 6, 48-68.	48.7	220
5	An improved heat transfer and fluid flow model of wire-arc additive manufacturing. International Journal of Heat and Mass Transfer, 2021, 167, 120835.	4.8	29
6	Spatial and temporal variation of hardness of a printed steel part. Acta Materialia, 2021, 209, 116775.	7.9	25
7	Physics-informed machine learning and mechanistic modeling of additive manufacturing to reduce defects. Applied Materials Today, 2021, 24, 101123.	4.3	34
8	Residual stresses in wire-arc additive manufacturing – Hierarchy of influential variables. Additive Manufacturing, 2020, 35, 101355.	3.0	40
9	Machine learning based hierarchy of causative variables for tool failure in friction stir welding. Acta Materialia, 2020, 192, 67-77.	7.9	37
10	Control of asymmetric track geometry in printed parts of stainless steels, nickel, titanium and aluminum alloys. Computational Materials Science, 2020, 182, 109791.	3.0	5
11	Residual stresses and distortion in the patterned printing of titanium and nickel alloys. Additive Manufacturing, 2019, 29, 100808.	3.0	40
12	Conditions for void formation in friction stir welding from machine learning. Npj Computational Materials, 2019, 5, .	8.7	49
13	Scientific, technological and economic issues in metal printing and their solutions. Nature Materials, 2019, 18, 1026-1032.	27.5	336
14	Printability of 316 stainless steel. Science and Technology of Welding and Joining, 2019, 24, 412-419.	3.1	28
15	Three-dimensional grain growth during multi-layer printing of a nickel-based alloy Inconel 718. Additive Manufacturing, 2019, 25, 448-459.	3.0	64
16	A digital twin for rapid qualification of 3D printed metallic components. Applied Materials Today, 2019, 14, 59-65.	4.3	190
17	Heat and fluid flow in additive manufacturing—Part I: Modeling of powder bed fusion. Computational Materials Science, 2018, 150, 304-313.	3.0	127
18	Heat and fluid flow in additive manufacturing – Part II: Powder bed fusion of stainless steel, and titanium, nickel and aluminum base alloys. Computational Materials Science, 2018, 150, 369-380.	3.0	169

TUHIN MUKHERJEE

#	Article	IF	CITATIONS
19	Additive manufacturing of metallic components – Process, structure and properties. Progress in Materials Science, 2018, 92, 112-224.	32.8	4,751
20	Residual stresses and distortion in additively manufactured compositionally graded and dissimilar joints. Computational Materials Science, 2018, 143, 325-337.	3.0	91
21	Mitigation of lack of fusion defects in powder bed fusion additive manufacturing. Journal of Manufacturing Processes, 2018, 36, 442-449.	5.9	141
22	Fusion zone geometries, cooling rates and solidification parameters during wire arc additive manufacturing. International Journal of Heat and Mass Transfer, 2018, 127, 1084-1094.	4.8	130
23	Dimensionless numbers in additive manufacturing. Journal of Applied Physics, 2017, 121, .	2.5	115
24	Building blocks for a digital twin of additive manufacturing. Acta Materialia, 2017, 135, 390-399.	7.9	258
25	An improved prediction of residual stresses and distortion in additive manufacturing. Computational Materials Science, 2017, 126, 360-372.	3.0	543
26	Mitigation of thermal distortion during additive manufacturing. Scripta Materialia, 2017, 127, 79-83.	5.2	151
27	Grain Growth Modeling for Additive Manufacturing of Nickel Based Superalloys. , 2016, , 265-269.		9
28	Printability of alloys for additive manufacturing. Scientific Reports, 2016, 6, 19717.	3.3	319