

Andreas Lundbäck

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

609
citations

840119

11
h-index

713013

21
g-index

25
all docs

25
docs citations

25
times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling of metal deposition. Finite Elements in Analysis and Design, 2011, 47, 1169-1177.	1.7	104
2	Simulation of additive manufacturing using coupled constitutive and microstructure models. Additive Manufacturing, 2016, 12, 144-158.	1.7	98
3	Simplified FE welding simulation of fillet welds – 3D effects on the formation residual stresses. Engineering Failure Analysis, 2009, 16, 2281-2289.	1.8	97
4	Validation of three-dimensional finite element model for electron beam welding of Inconel 718. Science and Technology of Welding and Joining, 2005, 10, 717-724.	1.5	48
5	Binder jetting of the AlCoCrFeNi alloy. Additive Manufacturing, 2019, 27, 72-79.	1.7	36
6	Simulation and validation of repair welding and heat treatment of an alloy 718 plate. Finite Elements in Analysis and Design, 2012, 58, 66-73.	1.7	35
7	Simulation of manufacturing chain of a titanium aerospace component with experimental validation. Finite Elements in Analysis and Design, 2012, 51, 10-21.	1.7	22
8	Approaches in computational welding mechanics applied to additive manufacturing: Review and outlook. Comptes Rendus - Mecanique, 2018, 346, 1033-1042.	2.1	19
9	Thermal simulation and phase modeling of bulk metallic glass in the powder bed fusion process. Additive Manufacturing, 2019, 27, 345-352.	1.7	17
10	Simulation of Ti-6Al-4V Additive Manufacturing Using Coupled Physically Based Flow Stress and Metallurgical Model. Materials, 2019, 12, 3844.	1.3	17
11	History Reduction by Lumping for Time-Efficient Simulation of Additive Manufacturing. Metals, 2020, 10, 58.	1.0	15
12	Simulation of microstructural evolution during repair welding of an IN718 plate. Finite Elements in Analysis and Design, 2016, 120, 92-101.	1.7	12
13	Finite Element Simulation to Support Sustainable Production by Additive Manufacturing. Procedia Manufacturing, 2017, 7, 127-130.	1.9	12
14	Mechanism Based Flow Stress Model for Alloy 625 and Alloy 718. Materials, 2020, 13, 5620.	1.3	12
15	Simulation of phase evolution in a Zr-based glass forming alloy during multiple laser remelting. Journal of Materials Research and Technology, 2022, 16, 1165-1178.	2.6	11
16	Numerical modeling and synchrotron diffraction measurements of residual stresses in laser powder bed fusion manufactured alloy 625. Materials and Design, 2022, 216, 110548.	3.3	10
17	Welding of Non-nominal Geometries – Physical Tests. Procedia CIRP, 2016, 43, 136-141.	1.0	9
18	Thermo-Mechanics and Microstructure Evolution in Manufacturing Simulations. Journal of Thermal Stresses, 2013, 36, 564-588.	1.1	7

#	ARTICLE	IF	CITATIONS
19	Thermal stresses and computational welding mechanics. Journal of Thermal Stresses, 2019, 42, 107-121.	1.1	7
20	Temperature and Microstructure Evolution in Gas Tungsten Arc Welding Wire Feed Additive Manufacturing of Ti-6Al-4V. Materials, 2019, 12, 3534.	1.3	6
21	Virtual Development of Process Parameters for Bulk Metallic Glass Formation in Laser-Based Powder Bed Fusion. Materials, 2022, 15, 450.	1.3	5
22	Modelling additive manufacturing of superalloys. Procedia Manufacturing, 2019, 35, 252-258.	1.9	1
23	Challenges in Finite Element Simulations of Chain of Manufacturing Processes. Materials Science Forum, 0, 762, 349-353.	0.3	0