

Andreas Lundbäck

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual Development of Process Parameters for Bulk Metallic Glass Formation in Laser-Based Powder Bed Fusion. <i>Materials</i> , 2022, 15, 450.	1.3	5
2	Simulation of phase evolution in a Zr-based glass forming alloy during multiple laser remelting. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1165-1178.	2.6	11
3	Numerical modeling and synchrotron diffraction measurements of residual stresses in laser powder bed fusion manufactured alloy 625. <i>Materials and Design</i> , 2022, 216, 110548.	3.3	10
4	History Reduction by Lumping for Time-Efficient Simulation of Additive Manufacturing. <i>Metals</i> , 2020, 10, 58.	1.0	15
5	Mechanism Based Flow Stress Model for Alloy 625 and Alloy 718. <i>Materials</i> , 2020, 13, 5620.	1.3	12
6	Temperature and Microstructure Evolution in Gas Tungsten Arc Welding Wire Feed Additive Manufacturing of Ti-6Al-4V. <i>Materials</i> , 2019, 12, 3534.	1.3	6
7	Modelling additive manufacturing of superalloys. <i>Procedia Manufacturing</i> , 2019, 35, 252-258.	1.9	1
8	Thermal stresses and computational welding mechanics. <i>Journal of Thermal Stresses</i> , 2019, 42, 107-121.	1.1	7
9	Thermal simulation and phase modeling of bulk metallic glass in the powder bed fusion process. <i>Additive Manufacturing</i> , 2019, 27, 345-352.	1.7	17
10	Binder jetting of the AlCoCrFeNi alloy. <i>Additive Manufacturing</i> , 2019, 27, 72-79.	1.7	36
11	Simulation of Ti-6Al-4V Additive Manufacturing Using Coupled Physically Based Flow Stress and Metallurgical Model. <i>Materials</i> , 2019, 12, 3844.	1.3	17
12	Approaches in computational welding mechanics applied to additive manufacturing: Review and outlook. <i>Comptes Rendus - Mecanique</i> , 2018, 346, 1033-1042.	2.1	19
13	Finite Element Simulation to Support Sustainable Production by Additive Manufacturing. <i>Procedia Manufacturing</i> , 2017, 7, 127-130.	1.9	12
14	Welding of Non-nominal Geometries – Physical Tests. <i>Procedia CIRP</i> , 2016, 43, 136-141.	1.0	9
15	Simulation of additive manufacturing using coupled constitutive and microstructure models. <i>Additive Manufacturing</i> , 2016, 12, 144-158.	1.7	98
16	Simulation of microstructural evolution during repair welding of an IN718 plate. <i>Finite Elements in Analysis and Design</i> , 2016, 120, 92-101.	1.7	12
17	Thermo-Mechanics and Microstructure Evolution in Manufacturing Simulations. <i>Journal of Thermal Stresses</i> , 2013, 36, 564-588.	1.1	7
18	Simulation of manufacturing chain of a titanium aerospace component with experimental validation. <i>Finite Elements in Analysis and Design</i> , 2012, 51, 10-21.	1.7	22

#	ARTICLE	IF	CITATIONS
19	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
20	Modelling of metal deposition. Finite Elements in Analysis and Design, 2011, 47, 1169-1177.	1.7	104
21	Simplified FE welding simulation of fillet welds â€™ 3D effects on the formation residual stresses. Engineering Failure Analysis, 2009, 16, 2281-2289.	1.8	97
22	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
23	Challenges in Finite Element Simulations of Chain of Manufacturing Processes. Materials Science Forum, 0, 762, 349-353.	0.3	0