

# Andreas Lundbck

## List of Publications by Year in Descending Order

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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.

24  
papers

461  
citations

10  
h-index

21  
g-index

25  
ext. papers

523  
ext. citations

3.2  
avg, IF

4.07  
L-index

#	Paper	IF	Citations
24	Simulation of phase evolution in a Zr-based glass forming alloy during multiple laser remelting. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 16, 1165-1178	5.5	0
23	Numerical modeling and synchrotron diffraction measurements of residual stresses in laser powder bed fusion manufactured alloy 625. <i>Materials and Design</i> , <b>2022</b> , 216, 110548	8.1	1
22	History Reduction by Lumping for Time-Efficient Simulation of Additive Manufacturing. <i>Metals</i> , <b>2020</b> , 10, 58	2.3	10
21	Mechanism Based Flow Stress Model for Alloy 625 and Alloy 718. <i>Materials</i> , <b>2020</b> , 13,	3.5	4
20	Modelling additive manufacturing of superalloys. <i>Procedia Manufacturing</i> , <b>2019</b> , 35, 252-258	1.5	1
19	Thermal stresses and computational welding mechanics. <i>Journal of Thermal Stresses</i> , <b>2019</b> , 42, 107-121	2.2	5
18	Thermal simulation and phase modeling of bulk metallic glass in the powder bed fusion process. <i>Additive Manufacturing</i> , <b>2019</b> , 27, 345-352	6.1	12
17	Binder jetting of the AlCoCrFeNi alloy. <i>Additive Manufacturing</i> , <b>2019</b> , 27, 72-79	6.1	24
16	Temperature and Microstructure Evolution in Gas Tungsten Arc Welding Wire Feed Additive Manufacturing of Ti-6Al-4V. <i>Materials</i> , <b>2019</b> , 12,	3.5	5
15	Simulation of Ti-6Al-4V Additive Manufacturing Using Coupled Physically Based Flow Stress and Metallurgical Model. <i>Materials</i> , <b>2019</b> , 12,	3.5	10
14	Approaches in computational welding mechanics applied to additive manufacturing: Review and outlook. <i>Comptes Rendus - Mecanique</i> , <b>2018</b> , 346, 1033-1042	2.1	15
13	Finite Element Simulation to Support Sustainable Production by Additive Manufacturing. <i>Procedia Manufacturing</i> , <b>2017</b> , 7, 127-130	1.5	11
12	Modeling And Experimental Measurement with Synchrotron Radiation of Residual Stresses in Laser Metal Deposited Ti-6Al-4V <b>2016</b> , 1279-1282		6
11	Welding of Non-nominal Geometries [Physical Tests. <i>Procedia CIRP</i> , <b>2016</b> , 43, 136-141	1.8	8
10	Simulation of additive manufacturing using coupled constitutive and microstructure models. <i>Additive Manufacturing</i> , <b>2016</b> , 12, 144-158	6.1	80
9	Simulation of microstructural evolution during repair welding of an IN718 plate. <i>Finite Elements in Analysis and Design</i> , <b>2016</b> , 120, 92-101	2.2	10
8	Finite Element Analysis Using a Dislocation Density Based Flow Stress Model Coupled with Model for Precipitate Evolution <b>2014</b> , 155-168		2

7	Challenges in Finite Element Simulations of Chain of Manufacturing Processes. <i>Materials Science Forum</i> , <b>2013</b> , 762, 349-353	0.4	
6	Thermo-Mechanics and Microstructure Evolution in Manufacturing Simulations. <i>Journal of Thermal Stresses</i> , <b>2013</b> , 36, 564-588	2.2	7
5	Simulation of manufacturing chain of a titanium aerospace component with experimental validation. <i>Finite Elements in Analysis and Design</i> , <b>2012</b> , 51, 10-21	2.2	19
4	Simulation and validation of repair welding and heat treatment of an alloy 718 plate. <i>Finite Elements in Analysis and Design</i> , <b>2012</b> , 58, 66-73	2.2	27
3	Modelling of metal deposition. <i>Finite Elements in Analysis and Design</i> , <b>2011</b> , 47, 1169-1177	2.2	87
2	Simplified FE welding simulation of fillet welds 3D effects on the formation residual stresses. <i>Engineering Failure Analysis</i> , <b>2009</b> , 16, 2281-2289	3.2	76
1	Validation of three-dimensional finite element model for electron beam welding of Inconel 718. <i>Science and Technology of Welding and Joining</i> , <b>2005</b> , 10, 717-724	3.7	41