

Lars Erik Lindgren

List of Publications by Citations

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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.

78
papers

2,105
citations

20
h-index

44
g-index

84
ext. papers

2,358
ext. citations

3.1
avg. IF

5.47
L-index

#	Paper	IF	Citations
78	FINITE ELEMENT MODELING AND SIMULATION OF WELDING PART 1: INCREASED COMPLEXITY. <i>Journal of Thermal Stresses</i> , 2001 , 24, 141-192	2.2	262
77	FINITE ELEMENT MODELING AND SIMULATION OF WELDING. PART 2: IMPROVED MATERIAL MODELING. <i>Journal of Thermal Stresses</i> , 2001 , 24, 195-231	2.2	216
76	Numerical modelling of welding. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 6710-6736	5.7	186
75	Dislocation density based model for plastic deformation and globularization of Ti-6Al-4V. <i>International Journal of Plasticity</i> , 2013 , 50, 94-108	7.6	124
74	FINITE ELEMENT MODELING AND SIMULATION OF WELDING. PART 3: EFFICIENCY AND INTEGRATION. <i>Journal of Thermal Stresses</i> , 2001 , 24, 305-334	2.2	117
73	Dislocations, vacancies and solute diffusion in physical based plasticity model for AISI 316L. <i>Mechanics of Materials</i> , 2008 , 40, 907-919	3.3	94
72	Simulation of multipass welding of a thick plate. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 44, 1301-1316	2.4	93
71	Modelling of metal deposition. <i>Finite Elements in Analysis and Design</i> , 2011 , 47, 1169-1177	2.2	87
70	Simulation of additive manufacturing using coupled constitutive and microstructure models. <i>Additive Manufacturing</i> , 2016 , 12, 144-158	6.1	80
69	Modelling and Simulation of Machining Processes. <i>Archives of Computational Methods in Engineering</i> , 2007 , 14, 173-204	7.8	70
68	Deformations and stresses in welding of shell structures. <i>International Journal for Numerical Methods in Engineering</i> , 1988 , 25, 635-655	2.4	60
67	Flow stress model for IN718 accounting for evolution of strengthening precipitates during thermal treatment. <i>Computational Materials Science</i> , 2014 , 82, 531-539	3.2	58
66	A multiresolution continuum simulation of the ductile fracture process. <i>Journal of the Mechanics and Physics of Solids</i> , 2010 , 58, 1681-1700	5	52
65	Automatic remeshing for three-dimensional finite element simulation of welding. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997 , 147, 401-409	5.7	51
64	Modelling of addition of filler material in large deformation analysis of multipass welding. <i>Communications in Numerical Methods in Engineering</i> , 2001 , 17, 647-657		47
63	Simulation of metal cutting using a physically based plasticity model. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2010 , 18, 075005	2	32
62	Simulation of Multipass Welding With Simultaneous Computation of Material Properties. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2001 , 123, 106-111	1.8	26

61	Transient bending waves in anisotropic plates studied by hologram interferometry. <i>Experimental Mechanics</i> , 1989 , 29, 409-413	2.6	22
60	Explicit versus implicit finite element formulation in simulation of rolling. <i>Journal of Materials Processing Technology</i> , 1990 , 24, 85-94	5.3	22
59	Efficiency and Accuracy in Thermal Simulation of Powder Bed Fusion of Bulk Metallic Glass. <i>Jom</i> , 2018 , 70, 1598-1603	2.1	21
58	A dislocation density based constitutive model for as-cast Al-Si alloys: Effect of temperature and microstructure. <i>International Journal of Mechanical Sciences</i> , 2017 , 121, 164-170	5.5	20
57	Improved and simplified dislocation density based plasticity model for AISI 316 L. <i>Mechanics of Materials</i> , 2017 , 108, 68-76	3.3	19
56	Modelling high strain rate phenomena in metal cutting simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2012 , 20, 085006	2	19
55	Simulation of manufacturing chain of a titanium aerospace component with experimental validation. <i>Finite Elements in Analysis and Design</i> , 2012 , 51, 10-21	2.2	19
54	Computational welding mechanics 2007 ,		19
53	Modelling of induction hardening in low alloy steels. <i>Finite Elements in Analysis and Design</i> , 2018 , 144, 61-75	2.2	15
52	Approaches in computational welding mechanics applied to additive manufacturing: Review and outlook. <i>Comptes Rendus - Mecanique</i> , 2018 , 346, 1033-1042	2.1	15
51	Modelling flow stress of AISI 316L at high strain rates. <i>Mechanics of Materials</i> , 2015 , 91, 194-207	3.3	14
50	Simulation of hydroforming of steel tube made of metastable stainless steel. <i>International Journal of Plasticity</i> , 2010 , 26, 1576-1590	7.6	14
49	The Simulation of Precipitation Evolutions and Mechanical Properties in Friction Stir Welding with Post-Weld Heat Treatments. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 5731-5740	1.6	13
48	Thermal simulation and phase modeling of bulk metallic glass in the powder bed fusion process. <i>Additive Manufacturing</i> , 2019 , 27, 345-352	6.1	12
47	Finite Element Simulation to Support Sustainable Production by Additive Manufacturing. <i>Procedia Manufacturing</i> , 2017 , 7, 127-130	1.5	11
46	Holographic interferometry measurements of transient bending waves in tubes and rings. <i>Experimental Mechanics</i> , 1993 , 33, 308-313	2.6	11
45	The effective stress function algorithm for pressure-dependent plasticity applied to hot isostatic pressing. <i>International Journal for Numerical Methods in Engineering</i> , 1998 , 43, 587-606	2.4	10
44	Simulating a chain of manufacturing processes using a geometry-based finite element code with adaptive meshing. <i>Finite Elements in Analysis and Design</i> , 2004 , 40, 511-528	2.2	10

43	Smoothing and adaptive remeshing schemes for graded element. <i>Communications in Numerical Methods in Engineering</i> , 2001 , 17, 1-17		10
42	History Reduction by Lumping for Time-Efficient Simulation of Additive Manufacturing. <i>Metals</i> , 2020 , 10, 58	2.3	10
41	Simulation of Ti-6Al-4V Additive Manufacturing Using Coupled Physically Based Flow Stress and Metallurgical Model. <i>Materials</i> , 2019 , 12,	3.5	10
40	Electromagnetic wave-based analysis of laser-particle interactions in directed energy deposition additive manufacturing. <i>Additive Manufacturing</i> , 2020 , 34, 101284	6.1	8
39	Elastic properties of ferrite and austenite in low alloy steels versus temperature and alloying. <i>Materialia</i> , 2019 , 5, 100193	3.2	8
38	Non-local damage models in manufacturing simulations. <i>European Journal of Mechanics, A/Solids</i> , 2015 , 49, 548-560	3.7	7
37	Thermo-Mechanics and Microstructure Evolution in Manufacturing Simulations. <i>Journal of Thermal Stresses</i> , 2013 , 36, 564-588	2.2	7
36	Simulation of mechanical cutting using a physical based material model. <i>International Journal of Material Forming</i> , 2010 , 3, 511-514	2	7
35	Temperature fields in simulation of butt-welding of large plates. <i>Communications in Applied Numerical Methods</i> , 1986 , 2, 155-164		7
34	Optimization and validation of a dislocation density based constitutive model for as-cast Mg-9%Al-1%Zn. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 710, 17-26	5.3	7
33	Modeling and simulation of weld solidification cracking part II. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019 , 63, 1503-1519	1.9	6
32	Modeling And Experimental Measurement with Synchrotron Radiation of Residual Stresses in Laser Metal Deposited Ti-6Al-4V 2016 , 1279-1282		6
31	Supporting engineering decisions through contextual, model-oriented communication and knowledge-based engineering in simulation-driven product development: an automotive case study. <i>Journal of Engineering Design</i> , 2013 , 24, 45-63	1.8	6
30	Measurement and modeling of residual stress in a welded Haynes \square 25 cylinder. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 399, 49-57	5.3	6
29	Efficient three-dimensional model of rolling using an explicit finite-element formulation. <i>Communications in Numerical Methods in Engineering</i> , 1993 , 9, 613-627		6
28	Thermal stresses and computational welding mechanics. <i>Journal of Thermal Stresses</i> , 2019 , 42, 107-121	2.2	5
27	Finite Element Analysis of cold pilgering using elastic roll dies. <i>Procedia Engineering</i> , 2017 , 207, 2370-2375		5
26	Computer simulation of temperature fields in mechanised plasma-arc welding. <i>Journal of Mechanical Working Technology</i> , 1989 , 19, 23-33		5

25	Process Simulation of Single and Dual Frequency Induction Surface Hardening Considering Magnetic Nonlinearity. <i>Materials Performance and Characterization</i> , 2012 , 1, 104374	0.5	5
24	Towards predictive simulations of machining. <i>Comptes Rendus - Mecanique</i> , 2016 , 344, 284-295	2.1	5
23	Modeling of thermal stresses in low alloy steels. <i>Journal of Thermal Stresses</i> , 2019 , 42, 725-743	2.2	4
22	Mechanism Based Flow Stress Model for Alloy 625 and Alloy 718. <i>Materials</i> , 2020 , 13,	3.5	4
21	The wedge rolling test. <i>Journal of Materials Processing Technology</i> , 1994 , 42, 227-238	5.3	3
20	Mechanical behavior and microstructure evolution during deformation of AA7075-T651. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 822, 141615	5.3	3
19	Finite Element Analysis Using a Dislocation Density Based Flow Stress Model Coupled with Model for Precipitate Evolution 2014 , 155-168		2
18	Understanding welding stress and distortion using computational welding mechanics 2011 , 22-78		2
17	Models for Forming Simulations of Metastable Austenitic Stainless Steel. <i>AIP Conference Proceedings</i> , 2004 ,	0	2
16	Nonlinear Finite Element Analysis and Applications to Welded Structures 2003 , 255-320		2
15	Heat transfer in cold rolling process of AA8015 alloy: a case study of 2-D FE simulation of coupled thermo-mechanical modeling. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 2617-2627	3.2	2
14	Modelling additive manufacturing of superalloys. <i>Procedia Manufacturing</i> , 2019 , 35, 252-258	1.5	1
13	Implicit finite element formulation of multiresolution continuum theory. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 293, 114-130	5.7	1
12	Finite element modeling of tube deformation during cold pilgering. <i>MATEC Web of Conferences</i> , 2016 , 80, 15004	0.3	1
11	High Strain Rate Deformation Behavior and Recrystallization of Alloy 718. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 5243	2.3	0
10	Integrated Design of Material, Manufacturing, Product and Performance. <i>Procedia Manufacturing</i> , 2017 , 7, 53-58	1.5	
9	A numerical model for simulating the effect of strain rate on eutectic band thickness. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020 , 64, 1635-1658	1.9	
8	Dislocation Density Based Plasticity Model Coupled with Precipitate Model. <i>Key Engineering Materials</i> , 2013 , 535-536, 125-128	0.4	

- 7 Challenges in Finite Element Simulations of Chain of Manufacturing Processes. *Materials Science Forum*, **2013**, 762, 349-353 0.4
- 6 Thermo-mechanical FE-analysis of residual stresses and stress redistribution in butt welding of a copper canister for spent nuclear fuel. *Nuclear Engineering and Design*, **2002**, 212, 401-408 1.8
- 5 Improvements of the program \square versatile two-dimensional mesh generator with automatic bandwidth reduction \square *Computers and Structures*, **1987**, 25, 637-638 4.5
- 4 The use of simulations and the need of experiments in material processing **1995**, 149-161
- 3 Non-Local Modelling of Strain Softening in Machining Simulations. *IOP Conference Series: Materials Science and Engineering*, **2017**, 225, 012053 0.4
- 2 Work hardening during alternating load directions of 316L SS. *Procedia Manufacturing*, **2018**, 15, 1777-1784 1.8
- 1 Modelling of the Influence of Prior Deformation of Austenite on the Martensite Formation in a Low-Alloyed Carbon Steel. *Materials Science Forum*, **2018**, 941, 95-99 0.4