Kjell Simonsson

List of Publications by Year in Descending Order

46 papers	930 citations	16 h-index	29 g-index
48 ext. papers	1,011 ext. citations	3.7 avg, IF	4.01 L-index

#	Paper	IF	Citations
46	A Simplified Layer-by-Layer Model for Prediction of Residual Stress Distribution in Additively Manufactured Parts. *Metals*, **2021**, 11, 861	2.3	3
45	Accounting for initial plastic deformation for fatigue crack growth predictions under TMF loading condition. *International Journal of Fatigue*, **2020**, 136, 105569	5	6
44	Procedures for handling computationally heavy cyclic load cases with application to a disc alloy material. *Materials at High Temperatures*, **2019**, 36, 447-458	1.1	6
43	Evaluation of notch effects in low cycle fatigue of alloy 718 using critical distances. *MATEC Web of Conferences*, **2018**, 165, 15001	0.3	2
42	THE EFFECT OF NOTCHES ON THE FATIGUE LIFE OF A NICKEL-BASE GAS TURBINE DISK MATERIAL. *Acta Polytechnica CTU Proceedings*, **2018**, 20, 34-42	0.4	2
41	A co-simulation method for system-level simulation of fluid–structure couplings in hydraulic percussion units. *Engineering With Computers*, **2017**, 33, 317-333	4.5	11
40	Influence of superimposed vibrational load on dwell time crack growth in a Ni-based superalloy. *International Journal of Fatigue*, **2016**, 87, 301-310	5	3
39	Scatter in Dwell Time Cracking for a Ni-Based Superalloy in Combination With Overloads. *Journal of Engineering for Gas Turbines and Power*, **2016**, 138,	1.7	1
38	Thermomechanical Fatigue Crack Growth Modeling in a Ni-Based Superalloy Subjected to Sustained Load. *Journal of Engineering for Gas Turbines and Power*, **2016**, 138,	1.7	1
37	Comparison Between Linear and Nonlinear Fracture Mechanics Analysis of Experimental Data for the Ductile Superalloy Haynes 230. *Journal of Engineering for Gas Turbines and Power*, **2016**, 138,	1.7	4
36	Three-dimensional crack growth modelling of a Ni-based superalloy at elevated temperature and sustained loading. *Theoretical and Applied Fracture Mechanics*, **2016**, 81, 2-10	3.7	9
35	Three-Dimensional LEFM Prediction of Fatigue Crack Propagation in a Gas Turbine Disk Material at Component Near Conditions. *Journal of Engineering for Gas Turbines and Power*, **2016**, 138,	1.7	6
34	Fatigue bearing failure of CFRP composite in bolted joints exposed to biaxial variable amplitude loading at elevated temperature. *Composite Structures*, **2016**, 142, 71-77	5.3	7
33	Fatigue bearing failure of CFRP composite in biaxially loaded bolted joints at elevated temperature. *Composite Structures*, **2015**, 127, 298-307	5.3	19
32	Quasi-static bearing failure of CFRP composite in biaxially loaded bolted joints. *Composite Structures*, **2015**, 125, 60-71	5.3	16
31	Creep and Stress Relaxation Anisotropy of a Single-Crystal Superalloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 2532-2544	2.3	14
30	Low-Cycle Fatigue Behaviour of a Ni-Based Single-Crystal Superalloy. *Advanced Materials Research*, **2014**, 891-892, 416-421	0.5	6

29	Modelling of TMF Crack Initiation in Smooth Single-Crystal Superalloy Specimens. *Advanced Materials Research*, **2014**, 891-892, 1283-1288	0.5	1
28	Modelling of Fatigue Crack Growth in Inconel 718 under Hold Time Conditions - Application to a Flight Spectrum. *Advanced Materials Research*, **2014**, 891-892, 759-764	0.5	4
27	The effect of random grain distributions on fatigue crack initiation in a notched coarse grained superalloy specimen. *Computational Materials Science*, **2012**, 51, 273-280	3.2	5
26	Deformation and Damage Mechanisms during Thermomechanical Fatigue of a Single-Crystal Superalloy in the and Directions **2012**, 215-223		5
25	On Localized Deformation and Recrystallization as Damage Mechanisms during Thermomechanical Fatigue of Single Crystal Nickel-Based Superalloys. *Advanced Materials Research*, **2011**, 278, 357-362	0.5	3
24	A combined critical plane and critical distance approach for predicting fatigue crack initiation in notched single-crystal superalloy components. *International Journal of Fatigue*, **2011**, 33, 1351-1359	5	44
23	A study of high strength steels undergoing non-linear strain paths Experiments and modelling. *Journal of Materials Processing Technology*, **2011**, 211, 122-132	5.3	24
22	Evaluation of fatigue crack initiation in a notched single-crystal superalloy component. *Procedia Engineering*, **2011**, 10, 619-624		11
21	Fatigue crack growth behaviour of Inconel 718 the concept of a damaged zone caused by high temperature hold times. *Procedia Engineering*, **2011**, 10, 2821-2826		17
20	Experimental and finite element robustness studies of a bumper system subjected to an offset impact loading. *International Journal of Crashworthiness*, **2011**, 16, 155-168	1	13
19	Fatigue crack growth behaviour of Inconel 718 with high temperature hold times. *Procedia Engineering*, **2010**, 2, 1095-1104		35
18	Investigation of localized damage in single crystals subjected to thermalmechanical fatigue (TMF). *Procedia Engineering*, **2010**, 2, 657-666		4
17	Fatigue crack initiation in a notched single-crystal superalloy component. *Procedia Engineering*, **2010**, 2, 1067-1075		13
16	Finite element based robustness study of a truck cab subjected to impact loading. *International Journal of Crashworthiness*, **2009**, 14, 111-124	1	15
15	On strain localisation in tube hydroforming of aluminium extrusions. *Journal of Materials Processing Technology*, **2008**, 195, 3-14	5.3	17
14	Tube hydroforming of aluminium extrusions using a conical die and extensive feeding. *Journal of Materials Processing Technology*, **2008**, 198, 14-21	5.3	65
13	A finite element analysis of stress distribution in bone tissue surrounding uncoupled or splinted dental implants. *Clinical Implant Dentistry and Related Research*, **2008**, 10, 40-6	3.9	49
12	The use of biaxial test data in the validation of constitutive descriptions for tube hydroforming applications. *Journal of Materials Processing Technology*, **2007**, 184, 69-76	5.3	4

11	On process parameter estimation for the tube hydroforming process. *Journal of Materials Processing Technology*, **2007**, 190, 1-11	5.3	24
10	Shear locking reduction in eight-noded tri-linear solid finite elements. *Computers and Structures*, **2006**, 84, 476-484	4.5	5
9	Selective mass scaling for explicit finite element analyses. *International Journal for Numerical Methods in Engineering*, **2005**, 63, 1436-1445	2.4	70
8	Iterative solution technique in selective mass scaling. *Communications in Numerical Methods in Engineering*, **2005**, 22, 77-82		15
7	On constitutive modeling of aluminum alloys for tube hydroforming applications. *International Journal of Plasticity*, **2005**, 21, 1041-1058	7.6	37
6	Simulating DCB, ENF and MMB experiments using shell elements and a cohesive zone model. *Composites Science and Technology*, **2004**, 64, 269-278	8.6	72
5	Simulation of low velocity impact on fiber laminates using a cohesive zone based delamination model. *Composites Science and Technology*, **2004**, 64, 279-288	8.6	59
4	A framework for multiplicative associative isotropic elasto-plasticity, that preserves the structure of the infinitesimal theory. *European Journal of Mechanics, A/Solids*, **2002**, 21, 191-198	3.7	
3	Modeling of delamination using a discretized cohesive zone and damage formulation. *Composites Science and Technology*, **2002**, 62, 1299-1314	8.6	72
2	Simulation of delamination in fiber composites with a discrete cohesive failure model. *Composites Science and Technology*, **2001**, 61, 667-677	8.6	64
1	An ALE formulation for the solution of two-dimensional metal cutting problems. *Computers and Structures*, **1999**, 72, 497-507	4.5	67