

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.

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	Simulating DCB, ENF and MMB experiments using shell elements and a cohesive zone model. <i>Composites Science and Technology</i> , 2004 , 64, 269-278	8.6	72
45	Modeling of delamination using a discretized cohesive zone and damage formulation. <i>Composites Science and Technology</i> , 2002 , 62, 1299-1314	8.6	72
44	Selective mass scaling for explicit finite element analyses. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 1436-1445	2.4	70
43	An ALE formulation for the solution of two-dimensional metal cutting problems. <i>Computers and Structures</i> , 1999 , 72, 497-507	4.5	67
42	Tube hydroforming of aluminium extrusions using a conical die and extensive feeding. <i>Journal of Materials Processing Technology</i> , 2008 , 198, 14-21	5.3	65
41	Simulation of delamination in fiber composites with a discrete cohesive failure model. <i>Composites Science and Technology</i> , 2001 , 61, 667-677	8.6	64
40	Simulation of low velocity impact on fiber laminates using a cohesive zone based delamination model. <i>Composites Science and Technology</i> , 2004 , 64, 279-288	8.6	59
39	A finite element analysis of stress distribution in bone tissue surrounding uncoupled or splinted dental implants. <i>Clinical Implant Dentistry and Related Research</i> , 2008 , 10, 40-6	3.9	49
38	A combined critical plane and critical distance approach for predicting fatigue crack initiation in notched single-crystal superalloy components. <i>International Journal of Fatigue</i> , 2011 , 33, 1351-1359	5	44
37	On constitutive modeling of aluminum alloys for tube hydroforming applications. <i>International Journal of Plasticity</i> , 2005 , 21, 1041-1058	7.6	37
36	Fatigue crack growth behaviour of Inconel 718 with high temperature hold times. <i>Procedia Engineering</i> , 2010 , 2, 1095-1104		35
35	A study of high strength steels undergoing non-linear strain paths Experiments and modelling. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 122-132	5.3	24
34	On process parameter estimation for the tube hydroforming process. <i>Journal of Materials Processing Technology</i> , 2007 , 190, 1-11	5.3	24
33	Fatigue bearing failure of CFRP composite in biaxially loaded bolted joints at elevated temperature. <i>Composite Structures</i> , 2015 , 127, 298-307	5.3	19
32	Fatigue crack growth behaviour of Inconel 718 The concept of a damaged zone caused by high temperature hold times. <i>Procedia Engineering</i> , 2011 , 10, 2821-2826		17
31	On strain localisation in tube hydroforming of aluminium extrusions. <i>Journal of Materials Processing Technology</i> , 2008 , 195, 3-14	5.3	17
30	Quasi-static bearing failure of CFRP composite in biaxially loaded bolted joints. <i>Composite Structures</i> , 2015 , 125, 60-71	5.3	16

29	Finite element based robustness study of a truck cab subjected to impact loading. <i>International Journal of Crashworthiness</i> , 2009 , 14, 111-124	1	15
28	Iterative solution technique in selective mass scaling. <i>Communications in Numerical Methods in Engineering</i> , 2005 , 22, 77-82		15
27	Creep and Stress Relaxation Anisotropy of a Single-Crystal Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2532-2544	2.3	14
26	Experimental and finite element robustness studies of a bumper system subjected to an offset impact loading. <i>International Journal of Crashworthiness</i> , 2011 , 16, 155-168	1	13
25	Fatigue crack initiation in a notched single-crystal superalloy component. <i>Procedia Engineering</i> , 2010 , 2, 1067-1075		13
24	A co-simulation method for system-level simulation of fluid-structure couplings in hydraulic percussion units. <i>Engineering With Computers</i> , 2017 , 33, 317-333	4.5	11
23	Evaluation of fatigue crack initiation in a notched single-crystal superalloy component. <i>Procedia Engineering</i> , 2011 , 10, 619-624		11
22	Three-dimensional crack growth modelling of a Ni-based superalloy at elevated temperature and sustained loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 81, 2-10	3.7	9
21	Fatigue bearing failure of CFRP composite in bolted joints exposed to biaxial variable amplitude loading at elevated temperature. <i>Composite Structures</i> , 2016 , 142, 71-77	5.3	7
20	Procedures for handling computationally heavy cyclic load cases with application to a disc alloy material. <i>Materials at High Temperatures</i> , 2019 , 36, 447-458	1.1	6
19	Accounting for initial plastic deformation for fatigue crack growth predictions under TMF loading condition. <i>International Journal of Fatigue</i> , 2020 , 136, 105569	5	6
18	Low-Cycle Fatigue Behaviour of a Ni-Based Single-Crystal Superalloy. <i>Advanced Materials Research</i> , 2014 , 891-892, 416-421	0.5	6
17	Three-Dimensional LEFM Prediction of Fatigue Crack Propagation in a Gas Turbine Disk Material at Component Near Conditions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016 , 138,	1.7	6
16	The effect of random grain distributions on fatigue crack initiation in a notched coarse grained superalloy specimen. <i>Computational Materials Science</i> , 2012 , 51, 273-280	3.2	5
15	Deformation and Damage Mechanisms during Thermomechanical Fatigue of a Single-Crystal Superalloy in the and Directions 2012 , 215-223		5
14	Shear locking reduction in eight-noded tri-linear solid finite elements. <i>Computers and Structures</i> , 2006 , 84, 476-484	4.5	5
13	Comparison Between Linear and Nonlinear Fracture Mechanics Analysis of Experimental Data for the Ductile Superalloy Haynes 230. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016 , 138,	1.7	4
12	Modelling of Fatigue Crack Growth in Inconel 718 under Hold Time Conditions - Application to a Flight Spectrum. <i>Advanced Materials Research</i> , 2014 , 891-892, 759-764	0.5	4

11	Investigation of localized damage in single crystals subjected to thermalmechanical fatigue (TMF). <i>Procedia Engineering</i> , 2010 , 2, 657-666		4
10	The use of biaxial test data in the validation of constitutive descriptions for tube hydroforming applications. <i>Journal of Materials Processing Technology</i> , 2007 , 184, 69-76	5.3	4
9	Influence of superimposed vibrational load on dwell time crack growth in a Ni-based superalloy. <i>International Journal of Fatigue</i> , 2016 , 87, 301-310	5	3
8	On Localized Deformation and Recrystallization as Damage Mechanisms during Thermomechanical Fatigue of Single Crystal Nickel-Based Superalloys. <i>Advanced Materials Research</i> , 2011 , 278, 357-362	0.5	3
7	A Simplified Layer-by-Layer Model for Prediction of Residual Stress Distribution in Additively Manufactured Parts. <i>Metals</i> , 2021 , 11, 861	2.3	3
6	Evaluation of notch effects in low cycle fatigue of alloy 718 using critical distances. <i>MATEC Web of Conferences</i> , 2018 , 165, 15001	0.3	2
5	THE EFFECT OF NOTCHES ON THE FATIGUE LIFE OF A NICKEL-BASE GAS TURBINE DISK MATERIAL. <i>Acta Polytechnica CTU Proceedings</i> , 2018 , 20, 34-42	0.4	2
4	Scatter in Dwell Time Cracking for a Ni-Based Superalloy in Combination With Overloads. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016 , 138,	1.7	1
3	Thermomechanical Fatigue Crack Growth Modeling in a Ni-Based Superalloy Subjected to Sustained Load. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016 , 138,	1.7	1
2	Modelling of TMF Crack Initiation in Smooth Single-Crystal Superalloy Specimens. <i>Advanced Materials Research</i> , 2014 , 891-892, 1283-1288	0.5	1
1	A framework for multiplicative associative isotropic elasto-plasticity, that preserves the structure of the infinitesimal theory. <i>European Journal of Mechanics, A/Solids</i> , 2002 , 21, 191-198	3.7	