

# Anne Habraken

## 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.

101 papers	1,906 citations	22 h-index	41 g-index
107 ext. papers	2,188 ext. citations	3.2 avg, IF	4.66 L-index

#	Paper	IF	Citations
101	Quality assessment of speckle patterns for digital image correlation. <i>Optics and Lasers in Engineering</i> , <b>2006</b> , 44, 1132-1145	4.6	332
100	Process window enhancement for single point incremental forming through multi-step toolpaths. <i>CIRP Annals - Manufacturing Technology</i> , <b>2008</b> , 57, 253-256	4.9	144
99	Single point incremental forming: state-of-the-art and prospects. <i>International Journal of Material Forming</i> , <b>2018</b> , 11, 743-773	2	104
98	Influence of Si precipitates on fracture mechanisms of AlSi10Mg parts processed by Selective Laser Melting. <i>Acta Materialia</i> , <b>2019</b> , 175, 160-170	8.4	87
97	Anisotropy and tension/compression asymmetry modeling of the room temperature plastic response of Ti6Al4V. <i>International Journal of Plasticity</i> , <b>2015</b> , 67, 53-68	7.6	72
96	Experimental characterization and elasto-plastic modeling of the quasi-static mechanical response of TA-6V at room temperature. <i>International Journal of Solids and Structures</i> , <b>2011</b> , 48, 1277-1289	3.1	69
95	Strain evolution in the single point incremental forming process: digital image correlation measurement and finite element prediction. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 55-71	2	64
94	Multiaxial fatigue damage modelling at macro scale of Ti6Al4V alloy. <i>International Journal of Fatigue</i> , <b>2009</b> , 31, 2031-2040	5	47
93	Finite element analysis of the free surface effects on the mechanical behavior of thin nickel polycrystals. <i>International Journal of Plasticity</i> , <b>2012</b> , 29, 155-172	7.6	45
92	Anisotropic elasto-plastic finite element analysis using a stress/strain interpolation method based on a polycrystalline model. <i>International Journal of Plasticity</i> , <b>2004</b> , 20, 1525-1560	7.6	45
91	Contact between deformable solids: The fully coupled approach. <i>Mathematical and Computer Modelling</i> , <b>1998</b> , 28, 153-169		42
90	3D thermal finite element analysis of laser cladding processed Ti-6Al-4V part with microstructural correlations. <i>Materials and Design</i> , <b>2017</b> , 128, 130-142	8.1	41
89	Interests and limitations of nanoindentation for bulk multiphase material identification: Application to the $\beta$ phase of Ti-5553. <i>Acta Materialia</i> , <b>2009</b> , 57, 5186-5195	8.4	41
88	Accurate stress computation in plane strain tensile tests for sheet metal using experimental data. <i>Journal of Materials Processing Technology</i> , <b>2010</b> , 210, 1772-1779	5.3	39
87	Length changes and texture prediction during free end torsion test of copper bars with FEM and remeshing techniques. <i>International Journal of Plasticity</i> , <b>2007</b> , 23, 1417-1438	7.6	38
86	Damage prediction in single point incremental forming using an extended Gurson model. <i>International Journal of Solids and Structures</i> , <b>2018</b> , 151, 45-56	3.1	32
85	Study of the geometrical inaccuracy on a SPIF two-slope pyramid by finite element simulations. <i>International Journal of Solids and Structures</i> , <b>2012</b> , 49, 3594-3604	3.1	32

84	Twinning in pure Ti subjected to monotonic simple shear deformation. <i>Materials Characterization</i> , <b>2012</b> , 72, 24-36	3.9	31
83	Thermo-mechanical-metallurgical model to predict geometrical distortions of rings during cooling phase after ring rolling operations. <i>International Journal of Machine Tools and Manufacture</i> , <b>2005</b> , 45, 657-664	9.4	31
82	Identification of material parameters to predict Single Point Incremental Forming forces. <i>International Journal of Material Forming</i> , <b>2008</b> , 1, 1147-1150	2	27
81	Automatic adaptive remeshing for numerical simulations of metalforming. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1992</b> , 101, 283-298	5.7	27
80	Analysis of the sensitivity of FEM predictions to numerical parameters in deep drawing simulations. <i>European Journal of Mechanics, A/Solids</i> , <b>2005</b> , 24, 614-629	3.7	23
79	Size effects and temperature dependence on strain-hardening mechanisms in some face centered cubic materials. <i>Mechanics of Materials</i> , <b>2015</b> , 91, 136-151	3.3	22
78	Comparison of residual stresses on long rolled profiles measured by X-ray diffraction, ring core and the sectioning methods and simulated by FE method. <i>Thin-Walled Structures</i> , <b>2016</b> , 104, 126-134	4.7	20
77	Impact of anisotropy and viscosity to model the mechanical behavior of TiBAl <sub>0.5</sub> V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 605, 39-50	5.3	19
76	Experimental and numerical study of an AlMgSc sheet formed by an incremental process. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1684-1693	5.3	19
75	On the numerical integration of an advanced Gurson model. <i>International Journal for Numerical Methods in Engineering</i> , <b>2011</b> , 85, 1049-1072	2.4	18
74	Material behavior of the hexagonal alpha phase of a titanium alloy identified from nanoindentation tests. <i>European Journal of Mechanics, A/Solids</i> , <b>2011</b> , 30, 248-255	3.7	18
73	Finite element study of the effect of some local defects on the risk of transverse cracking in continuous casting of steel slabs. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2007</b> , 196, 2285-2299	5.7	18
72	Finite Element Modeling of Incremental Forming of Aluminum Sheets. <i>Advanced Materials Research</i> , <b>2005</b> , 6-8, 525-532	0.5	18
71	Validation of a New Finite Element for Incremental Forming Simulation Using a Dynamic Explicit Approach. <i>Key Engineering Materials</i> , <b>2007</b> , 344, 495-502	0.4	15
70	Compression Test for Metal Characterization using Digital Image Correlation and Inverse Modeling. <i>Procedia IUTAM</i> , <b>2012</b> , 4, 206-214		14
69	Modelling compression tests on aluminium produced by equal channel angular extrusion. <i>Acta Materialia</i> , <b>2009</b> , 57, 1821-1830	8.4	14
68	Numerical modeling of damage evolution of DP steels on the basis of X-ray tomography measurements. <i>Mechanics of Materials</i> , <b>2011</b> , 43, 139-156	3.3	14
67	A partial hybrid stress solid-shell element for the analysis of laminated composites. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2011</b> , 200, 3526-3539	5.7	13

66	Effect of stress path on the miniaturization size effect for nickel polycrystals. <i>International Journal of Plasticity</i> , <b>2015</b> , 64, 26-39	7.6	12
65	Numerical investigation and experimental validation of physically based advanced GTN model for DP steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 569, 1-12	5.3	12
64	Numerical Simulation of a Pyramid Steel Sheet Formed by Single Point Incremental Forming Using Solid-Shell Finite Elements. <i>Key Engineering Materials</i> , <b>2013</b> , 549, 180-188	0.4	11
63	Phenomenological and crystal plasticity approaches to describe the mechanical behaviour of Ti6Al4V titanium alloy. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 205-215	2	11
62	Finite element investigation of size effects on the mechanical behavior of nickel single crystals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 550, 342-349	5.3	10
61	Single point incremental forming simulation with adaptive remeshing technique using solid-shell elements. <i>Engineering Computations</i> , <b>2016</b> , 33, 1388-1421	1.4	8
60	Correcting tensile test results of ECAE-deformed aluminium. <i>Scripta Materialia</i> , <b>2007</b> , 56, 749-752	5.6	8
59	Texture evolution during deep-drawing processes. <i>Journal of Materials Processing Technology</i> , <b>2002</b> , 125-126, 110-118	5.3	8
58	Simulation of square-cup deep-drawing with different finite elements. <i>Journal of Materials Processing Technology</i> , <b>1995</b> , 50, 81-91	5.3	8
57	Thermal histories and microstructures in Direct Energy Deposition of a High Speed Steel thick deposit. <i>Materials Letters</i> , <b>2019</b> , 236, 42-45	3.3	8
56	Phase Transformations and Crack Initiation in a High-Chromium Cast Steel Under Hot Compression Tests. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 2025-2041	1.6	7
55	Implementation of a damage evolution law for dual-phase steels in Gurson-type models. <i>Materials and Design</i> , <b>2015</b> , 88, 1213-1222	8.1	7
54	Assessment of Damage and Anisotropic Plasticity Models to Predict Ti-6Al-4V Behavior. <i>Key Engineering Materials</i> , <b>2015</b> , 651-653, 575-580	0.4	7
53	Experimental and numerical study of TA-6V mechanical behavior in different monotonic loading conditions at room temperature. <i>Procedia IUTAM</i> , <b>2012</b> , 3, 100-114		7
52	Numerical Simulation of Compacting Process of a Multi-stepped Part with Comparison to Experiments.. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , <b>1999</b> , 46, 696-704	0.2	7
51	Comparison of FEM Simulations for the Incremental Forming Process. <i>Advanced Materials Research</i> , <b>2013</b> , 533-542	5.3	7
50	Thermal model for the directed energy deposition of composite coatings of 316L stainless steel enriched with tungsten carbides. <i>Materials and Design</i> , <b>2021</b> , 204, 109661	8.1	7
49	Impact of distortional hardening and the strength differential effect on the prediction of large deformation behavior of the Ti6Al4V alloy. <i>Meccanica</i> , <b>2019</b> , 54, 1823-1840	2.1	6

48	Simulation of the bending process of hardening metallic sheets using damage model. Part I: Theoretical development and numerical implementation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 528, 434-441	5.3	6
47	Multiscale modeling of back-stress evolution in equal-channel angular pressing: from one pass to multiple passes. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 4696-4704	4.3	6
46	Study of a 2024 aluminium rod produced by rotary forging. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 184, 19-26	5.3	6
45	A new finite element integration scheme. Application to a simple shear test of anisotropic material. <i>International Journal for Numerical Methods in Engineering</i> , <b>2008</b> , 73, 1395-1412	2.4	6
44	Sensitivity Analysis in the Modelling of a High Speed Steel Thin-Wall Produced by Directed Energy Deposition. <i>Metals</i> , <b>2020</b> , 10, 1554	2.3	6
43	Experimental characterization of the compressive mechanical behaviour of Ti6Al4V alloy at constant strain rates over the full elastoplastic range. <i>International Journal of Material Forming</i> , <b>2020</b> , 13, 709-724	2	5
42	Simulation of the bending process of hardening metallic sheets using damage model. Part II: Numerical investigations. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 528, 442-448	5.3	5
41	FE modeling of the cooling and tempering steps of bimetallic rolling mill rolls. <i>International Journal of Material Forming</i> , <b>2017</b> , 10, 287-305	2	4
40	Damage characterization in a ferritic steel sheet: Experimental tests, parameter identification and numerical modeling. <i>International Journal of Solids and Structures</i> , <b>2018</b> , 155, 109-122	3.1	4
39	Study of Residual Stresses in Bimetallic Work Rolls. <i>Advanced Materials Research</i> , <b>2014</b> , 996, 580-585	0.5	4
38	Towards Fracture Prediction in Single Point Incremental Forming. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 2355-2362	0.4	4
37	Crystal plasticity prediction of Lankford coefficients using the MULTISITE model: influence of the critical resolved shear stresses. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 65-68	2	4
36	Evaluation of the Enhanced Assumed Strain and Assumed Natural Strain in the SSH3D and RESS3 Solid Shell Elements for Single Point Incremental Forming Simulation. <i>Key Engineering Materials</i> , <b>2012</b> , 504-506, 913-918	0.4	4
35	Transient Yielding during Compression Tests on ECAPed AA1050 Aluminium. <i>Materials Science Forum</i> , <b>2010</b> , 667-669, 955-960	0.4	3
34	Multiscale Approaches <b>2007</b> , 125-141		3
33	Out-of-plane displacement derivative measurement: comparison of results obtained by a shearographic interferometer using the separation of the polarization states and the finite element method <b>2006</b> ,		3
32	On The Evaluation Of The Through Thickness Residual Stresses Distribution Of Cold Formed Profiles. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	3
31	Plane Strain Test for Metal Sheet Characterization. <i>Key Engineering Materials</i> , <b>2007</b> , 344, 135-142	0.4	3

30	Analysis of Texture Evolution and Hardening Behavior during Deep Drawing with an Improved Mixed Type FEM Element. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	0	3
29	2D thermal finite element analysis of laser cladding of 316L+WC Composite coatings. <i>Procedia Manufacturing</i> , <b>2020</b> , 50, 86-92	1.5	3
28	Effect of the Kinematic Hardening in the Simulations of the Straightening of Long Rolled Profiles. <i>Key Engineering Materials</i> , <b>2014</b> , 611-612, 178-185	0.4	2
27	A finite element analysis of the bending and the bendability of metallic sheets. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 283-297	2	2
26	Material Parameter Identification of Cazacu Model for Ti6Al4V Using the Simulated Annealing Algorithm. <i>Materials Science Forum</i> , <b>2010</b> , 636-637, 1125-1130	0.4	2
25	Study of the formability of steels. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 515-518	2	2
24	Temperature Wrinkling Prediction in Metal/Polymer Multilayer Coatings. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 559-562	2	2
23	Material Identification Using a Bi-Axial Test Machine. <i>Applied Mechanics and Materials</i> , <b>2006</b> , 3-4, 91-98	0.3	2
22	Development of a Mesoscopic Cell Modeling the Damage Process in Steel at Elevated Temperature. <i>Key Engineering Materials</i> , <b>2003</b> , 233-236, 145-150	0.4	2
21	On the elasto-viscoplastic behavior of the Ti5553 alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 617, 97-109	5.3	1
20	Experimental Investigation and Phenomenological Modeling of the Quasi-Static Mechanical Behavior of TA6V Titanium Alloy. <i>Key Engineering Materials</i> , <b>2014</b> , 622-623, 1200-1206	0.4	1
19	Numerical Modeling and Digital Image Correlation Strain Measurements of Coated Metal Sheets Submitted to Large Bending Deformation. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 2424-2431	0.4	1
18	Prediction of the Tension/Compression Asymmetry of ECAP Processed FCC Material Using an Integrated Model Based on Dislocation and Back-Stress. <i>Materials Science Forum</i> , <b>2010</b> , 667-669, 961-966	0.4	1
17	Roller Pressure Quench Process of Steel Plate Modelling <b>2011</b> ,		1
16	Deep Drawing Simulations With Different Polycrystalline Models. <i>AIP Conference Proceedings</i> , <b>2004</b> ,	0	1
15	Fast and accurate prediction of temperature evolutions in additive manufacturing process using deep learning. <i>Journal of Intelligent Manufacturing</i> , <b>1</b>	6.7	1
14	Modeling of Crack Propagation in Weld Beam-to-Column Connections Submitted to Cyclic Loading with a Cohesive Zone Model. <i>Journal of ASTM International</i> , <b>2010</b> , 7, 102531		1
13	Multiscale Modeling of Equal Channel Angular Extruded Aluminum with Strain Gradient Crystal Plasticity and Phenomenological Models. <i>Ceramic Transactions</i> , <b>671-678</b>	0.1	1

12	Tunable surface boundary conditions in strain gradient crystal plasticity model. <i>Mechanics of Materials</i> , <b>2020</b> , 145, 103393	3.3	0
11	Mechanical response of nickel multicrystals for shear and tensile conditions at room temperature and 573K. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 809, 140987	5.3	0
10	Nanomechanical Characterization of the Deformation Response of Orthotropic Ti6Al4V. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2001341	3.5	0
9	Identification and validation of an extended Stewart-Cazacu micromechanics damage model applied to Ti6Al4V specimens exhibiting positive stress triaxialities. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2021</b> , 235, 1248-1261	1.3	0
8	Characterization, propagation, and sensitivity analysis of uncertainties in the directed energy deposition process using a deep learning-based surrogate model. <i>Probabilistic Engineering Mechanics</i> , <b>2022</b> , 103297	2.6	0
7	Thermal Analysis of Solidifying Steel Shell in Continuous Casting Process. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 686-692	1.5	
6	Parametric Study of Metal/Polymer Multilayer Coatings for Temperature Wrinkling Prediction. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 2437-2445	1.6	
5	Impact of Metallurgical Size Effects on Plasticity of Thin Metallic Materials. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 2290-2295	0.4	
4	Modeling the Vertical Spincasting of Large Bimetallic Rolling Mill Rolls. <i>Key Engineering Materials</i> , <b>2010</b> , 443, 15-20	0.4	
3	Notched Specimens Fracture Prediction with an Advanced GTN Model. <i>Key Engineering Materials</i> , <b>2011</b> , 488-489, 77-80	0.4	
2	2D thermal finite element analysis of sticker breakout in continuous casting. <i>Procedia Manufacturing</i> , <b>2020</b> , 50, 376-383	1.5	
1	Identification and Validation of Brass Material Parameters Using Single Point Incremental Forming. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 873-883	0.3	