

# Anne Habraken

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8061543/anne-habraken-publications-by-year.pdf>

**Version:** 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
100	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	
99	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
98	Nanomechanical Characterization of the Deformation Response of Orthotropic Ti6Al4V. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2001341	3.5	0
97	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
96	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
95	Thermal Analysis of Solidifying Steel Shell in Continuous Casting Process. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 686-692	1.5	
94	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
93	Tunable surface boundary conditions in strain gradient crystal plasticity model. <i>Mechanics of Materials</i> , <b>2020</b> , 145, 103393	3.3	0
92	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
91	2D thermal finite element analysis of sticker breakout in continuous casting. <i>Procedia Manufacturing</i> , <b>2020</b> , 50, 376-383	1.5	
90	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
89	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
88	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
87	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
86	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
85	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

84	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
83	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
82	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
81	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
80	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
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	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
77	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
76	Anisotropy and tension-compression asymmetry modeling of the room temperature plastic response of Ti-6Al-4V. <i>International Journal of Plasticity</i> , <b>2015</b> , 67, 53-68	7.6	72
75	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
74	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
73	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
72	Impact of anisotropy and viscosity to model the mechanical behavior of Ti-6Al-4V alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 605, 39-50	5.3	19
71	Study of Residual Stresses in Bimetallic Work Rolls. <i>Advanced Materials Research</i> , <b>2014</b> , 996, 580-585	0.5	4
70	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
69	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	
68	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
67	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

66	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	
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 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
63	Towards Fracture Prediction in Single Point Incremental Forming. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 2355-2362	0.4	4
62	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
61	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
60	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
59	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
58	Compression Test for Metal Characterization using Digital Image Correlation and Inverse Modeling. <i>Procedia IUTAM</i> , <b>2012</b> , 4, 206-214		14
57	Twinning in pure Ti subjected to monotonic simple shear deformation. <i>Materials Characterization</i> , <b>2012</b> , 72, 24-36	3.9	31
56	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
55	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
54	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
53	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
52	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
51	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
50	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
49	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

48	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
47	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
46	Roller Pressure Quench Process of Steel Plate Modelling <b>2011</b> ,		1
45	Notched Specimens Fracture Prediction with an Advanced GTN Model. <i>Key Engineering Materials</i> , <b>2011</b> , 488-489, 77-80	0.4	
44	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
43	Transient Yielding during Compression Tests on ECAPed AA1050 Aluminium. <i>Materials Science Forum</i> , <b>2010</b> , 667-669, 955-960	0.4	3
42	Modeling the Vertical Spincasting of Large Bimetallic Rolling Mill Rolls. <i>Key Engineering Materials</i> , <b>2010</b> , 443, 15-20	0.4	
41	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
40	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
39	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
38	Temperature Wrinkling Prediction in Metal/Polymer Multilayer Coatings. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 559-562	2	2
37	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
36	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
35	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
34	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
33	Study of the formability of steels. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 515-518	2	2
32	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
31	Multiaxial fatigue damage modelling at macro scale of Ti6Al4V alloy. <i>International Journal of Fatigue</i> , <b>2009</b> , 31, 2031-2040	5	47

30	Modelling compression tests on aluminium produced by equal channel angular extrusion. <i>Acta Materialia</i> , <b>2009</b> , 57, 1821-1830	8.4	14
29	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
28	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
27	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
26	Multiscale Approaches <b>2007</b> , 125-141		3
25	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
24	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
23	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
22	Correcting tensile test results of ECAE-deformed aluminium. <i>Scripta Materialia</i> , <b>2007</b> , 56, 749-752	5.6	8
21	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
20	On The Evaluation Of The Through Thickness Residual Stresses Distribution Of Cold Formed Profiles. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	3
19	Plane Strain Test for Metal Sheet Characterization. <i>Key Engineering Materials</i> , <b>2007</b> , 344, 135-142	0.4	3
18	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
17	Material Identification Using a Bi-Axial Test Machine. <i>Applied Mechanics and Materials</i> , <b>2006</b> , 3-4, 91-98	0.3	2
16	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
15	Finite Element Modeling of Incremental Forming of Aluminum Sheets. <i>Advanced Materials Research</i> , <b>2005</b> , 6-8, 525-532	0.5	18
14	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
13	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

12	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
11	Deep Drawing Simulations With Different Polycrystalline Models. <i>AIP Conference Proceedings</i> , <b>2004</b> ,	0	1
10	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
9	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
8	Texture evolution during deep-drawing processes. <i>Journal of Materials Processing Technology</i> , <b>2002</b> , 125-126, 110-118	5.3	8
7	Numerical Simulation of Compacting Process of a Multi-stepped Part with Comparison to Experiments.. <i>Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , <b>1999</b> , 46, 696-704	0.2	7
6	Contact between deformable solids: The fully coupled approach. <i>Mathematical and Computer Modelling</i> , <b>1998</b> , 28, 153-169		42
5	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
4	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
3	Fast and accurate prediction of temperature evolutions in additive manufacturing process using deep learning. <i>Journal of Intelligent Manufacturing</i> , 1	6.7	1
2	Comparison of FEM Simulations for the Incremental Forming Process. <i>Advanced Materials Research</i> , 533-542	5.7	7
1	Multiscale Modeling of Equal Channel Angular Extruded Aluminum with Strain Gradient Crystal Plasticity and Phenomenological Models. <i>Ceramic Transactions</i> , 671-678	0.1	1