# Ton van den Boogaard

### List of Publications by Citations

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141<br/>papers2,103<br/>citations25<br/>h-index42<br/>g-index153<br/>ext. papers2,440<br/>ext. citations2.7<br/>avg, IF5.29<br/>L-index

#	Paper	IF	Citations
141	The technology of Incremental Sheet Forming A brief review of the history. <i>Journal of Materials Processing Technology</i> , <b>2010</b> , 210, 981-997	5.3	203
140	An overview of stabilizing deformation mechanisms in incremental sheet forming. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 3688-3695	5.3	187
139	A plane stress yield function for anisotropic sheet material by interpolation of biaxial stress states. <i>International Journal of Plasticity</i> , <b>2006</b> , 22, 557-580	7.6	173
138	Finite-Element Modeling of Deformation and Cracking in Early-Age Concrete. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1994</b> , 120, 2519-2534	2.4	74
137	Plasticity and fracture modeling of quench-hardenable boron steel with tailored properties. <i>Journal of Materials Processing Technology</i> , <b>2014</b> , 214, 1211-1227	5.3	71
136	Simulation of aluminium sheet forming at elevated temperatures. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2006</b> , 195, 6691-6709	5.7	64
135	Multi-scale friction modeling for sheet metal forming: The boundary lubrication regime. <i>Tribology International</i> , <b>2015</b> , 81, 112-128	4.9	61
134	Product defect compensation by robust optimization of a cold roll forming process. <i>Journal of Materials Processing Technology</i> , <b>2013</b> , 213, 978-986	5.3	50
133	Multi-scale friction modeling for sheet metal forming: The mixed lubrication regime. <i>Tribology International</i> , <b>2015</b> , 85, 10-25	4.9	49
132	Incremental forming by continuous bending under tension an experimental investigation. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 5456-5463	5.3	46
131	Optimization of forging processes using Finite Element simulations. <i>Structural and Multidisciplinary Optimization</i> , <b>2010</b> , 42, 797-810	3.6	45
130	An optimisation strategy for industrial metal forming processes. <i>Structural and Multidisciplinary Optimization</i> , <b>2008</b> , 35, 571-586	3.6	44
129	Accurate determination of flow curves using the bulge test with optical measuring systems. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 226, 169-187	5.3	40
128	Warm forming simulation of AlMg sheet. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 5636-5	6453	40
127	The influence of ligament modelling strategies on the predictive capability of finite element models of the human knee joint. <i>Journal of Biomechanics</i> , <b>2017</b> , 65, 1-11	2.9	39
126	Effect of material scatter on the plastic behavior and stretchability in sheet metal forming. <i>Journal of Materials Processing Technology</i> , <b>2014</b> , 214, 238-252	5.3	34
125	Influence of ring growth rate on damage development in hot ring rolling. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 227, 268-280	5.3	32

# (2012-2018)

124	The effects of temperature on friction and wear mechanisms during direct press hardening of Al-Si coated ultra-high strength steel. <i>Wear</i> , <b>2018</b> , 406-407, 149-155	3.5	31	
123	Sequential robust optimization of a V-bending process using numerical simulations. <i>Structural and Multidisciplinary Optimization</i> , <b>2012</b> , 46, 137-153	3.6	31	
122	Friction and wear mechanisms during hot stamping of AlSi coated press hardening steel. <i>Wear</i> , <b>2017</b> , 380-381, 137-145	3.5	29	
121	Determination of strain hardening parameters of tailor hardened boron steel up to high strains using inverse FEM optimization and strain field matching. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 228, 43-58	5.3	29	
120	The prediction of differential hardening behaviour of steels by multi-scale crystal plasticity modelling. <i>International Journal of Plasticity</i> , <b>2015</b> , 73, 119-141	7.6	29	
119	A Metamodel Based Optimisation Algorithm for Metal Forming Processes <b>2007</b> , 55-72		27	
118	Parameter reduction for the Yld2004-18p yield criterion. <i>International Journal of Material Forming</i> , <b>2016</b> , 9, 175-178	2	26	
117	A comparison between dynamic implicit and explicit finite element simulations of the native knee joint. <i>Medical Engineering and Physics</i> , <b>2016</b> , 38, 1123-30	2.4	25	
116	Cyclic stretch-bending: Mechanics, stability and formability. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1965-1981	5.3	25	
115	Friction in sheet metal forming: influence of surface roughness and strain rate on sheet metal forming simulation results. <i>Procedia Manufacturing</i> , <b>2019</b> , 29, 512-519	1.5	23	
114	Sequential improvement for robust optimization using an uncertainty measure for radial basis functions. <i>Structural and Multidisciplinary Optimization</i> , <b>2017</b> , 55, 1345-1363	3.6	22	
113	A numerical investigation of the continuous bending under tension test. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1948-1956	5.3	21	
112	A comparative study on the performance of meshless approximations and their integration. <i>Computational Mechanics</i> , <b>2011</b> , 48, 121-137	4	21	
111	Substructuring in the implicit simulation of single point incremental sheet forming. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 181-189	2	21	
110	Plasticity and fracture modeling of the heat-affected zone in resistance spot welded tailor hardened boron steel. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 234, 309-322	5.3	19	
109	Phenomenological modeling of anisotropy induced by evolution of the dislocation structure on the macroscopic and microscopic scale. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 141-154	2	17	
108	Friction surface cladding: An exploratory study of a new solid state cladding process. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 229, 769-784	5.3	16	
107	Efficient implicit simulation of incremental sheet forming. <i>International Journal for Numerical Methods in Engineering</i> , <b>2012</b> , 90, 597-612	2.4	16	

106	On the nonlinear anelastic behavior of AHSS. <i>International Journal of Solids and Structures</i> , <b>2018</b> , 151, 2-8	3.1	15
105	Time reduction in implicit single point incremental sheet forming simulation by refinement - derefinement. <i>International Journal of Material Forming</i> , <b>2008</b> , 1, 1167-1170	2	15
104	Adaptive return mapping algorithms for J2 elasto-viscoplastic flow. <i>International Journal for Numerical Methods in Engineering</i> , <b>2001</b> , 51, 1283-1298	2.4	15
103	Tensile tests with bending: a mechanism for incremental forming <i>International Journal of Material Forming</i> , <b>2008</b> , 1, 1155-1158	2	14
102	Large strain cyclic behavior of metastable austenic stainless steel. <i>Materials Science &amp; amp;</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, <b>2015</b> , 631, 166-172	5.3	13
101	Experimental characterization of microstructure development during loading path changes in bcc sheet steels. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 674-689	4.3	13
100	Simulation of stretch forming with intermediate heat treatments of aircraft skins. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 129-140	2	13
99	Microscopic investigation of damage mechanisms and anisotropic evolution of damage in DP600. <i>Materials Science &amp; Microstructure and Processing</i> , <b>2019</b> , 739, 348-356	5.3	13
98	Influence of Punch Radius in a Nakazima Test for Mild Steel and Aluminium. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 1179-1182	2	11
97	Material Characterization at High Strain by Adapted Tensile Tests. <i>Experimental Mechanics</i> , <b>2012</b> , 52, 1195-1209	2.6	10
96	Material-induced anisotropic damage in DP600. <i>International Journal of Damage Mechanics</i> , <b>2013</b> , 22, 1039-1070	3	9
95	The ALE-method with triangular elements: direct convection of integration point values. <i>International Journal for Numerical Methods in Engineering</i> , <b>2000</b> , 49, 697-720	2.4	9
94	Modeling boundary friction of coated sheets in sheet metal forming. <i>Tribology International</i> , <b>2021</b> , 153, 106554	4.9	9
93	Modeling Mixed Lubrication Friction for Sheet Metal Forming Applications. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 586-590	1.5	8
92	Cladding of Advanced Al Alloys Employing Friction Stir Welding. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 1014-1021	0.4	8
91	Improvement of implicit finite element code performance in deep drawing simulations by dynamics contributions. <i>Journal of Materials Processing Technology</i> , <b>2003</b> , 134, 413-420	5.3	8
90	Influence of Feed Rate on Damage Development in Hot Ring Rolling. <i>Procedia Engineering</i> , <b>2014</b> , 81, 292-297		7
89	On the effect of numerical noise in approximate optimization of forming processes using numerical simulations. <i>International Journal of Material Forming</i> , <b>2013</b> , 7, 317	2	7

# (2018-2003)

88	Efficient implicit finite element analysis of sheet forming processes. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 56, 1083-1107	2.4	7
87	Exploiting data in smart factories: real-time state estimation and model improvement in metal forming mass production. <i>International Journal of Material Forming</i> , <b>2020</b> , 13, 663-673	2	7
86	A noninvasive MRI based approach to estimate the mechanical properties of human knee ligaments. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 93, 43-51	4.1	6
85	Stretching the limits of forming processes by robust optimization: A numerical and experimental demonstrator. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 217, 345-355	5.3	6
84	Semi-analytical contact model to determine the flattening behavior of coated sheets under normal load. <i>Tribology International</i> , <b>2020</b> , 146, 106182	4.9	6
83	An Insight in Friction and Wear Mechanisms during Hot Stamping. <i>Key Engineering Materials</i> , <b>2018</b> , 767, 131-138	0.4	6
82	Friction and lubrication modeling in sheet metal forming simulations of a Volvo XC90 inner door. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2016</b> , 159, 012021	0.4	6
81	Contact Effects in Bending Affecting Stress and Formability. <i>International Journal of Material Forming</i> , <b>2010</b> , 3, 1159-1162	2	6
80	An adaptive time-stepping algorithm for quasistatic processes. <i>Communications in Numerical Methods in Engineering</i> , <b>1994</b> , 10, 837-844		6
79	Feedforward control of sheet bending based on force measurements. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 31, 260-272	5	6
78	Cracking Behavior of Coating during Hot Tensile Tests of AlSi-Coated Press Hardening Steel. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 602-607	1.5	5
77	Estimating product-to-product variations in metal forming using force measurements 2017,		5
76	Multi-Scale Contact Modeling of Coated Steels for Sheet Metal Forming Applications. <i>Key Engineering Materials</i> , <b>2018</b> , 767, 223-231	0.4	5
75	Meshless methods and forming processes. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 585-588	2	5
74	Modelling of aluminium sheet forming at elevated temperatures. AIP Conference Proceedings, 2004,	О	5
73	Combined athermal and isothermal martensite to austenite reversion kinetics, experiment and modelling. <i>Materials and Design</i> , <b>2020</b> , 196, 109124	8.1	5
72	Mixed lubrication friction model including surface texture effects for sheet metal forming. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 291, 117035	5.3	5
71	Temperature dependent micromechanics-based friction model for cold stamping processes. Journal of Physics: Conference Series, 2018, 1063, 012136	0.3	5

70	Robust optimization based on analytical evaluation of uncertainty propagation. <i>Engineering Optimization</i> , <b>2019</b> , 51, 1581-1603	2	4
69	Model-based control of strip bending in mass production. <i>CIRP Annals - Manufacturing Technology</i> , <b>2015</b> , 64, 297-300	4.9	4
68	Modelling of Friction in Hot Stamping. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 596-601	1.5	4
67	Identification of Plasticity Model Parameters of the Heat-Affected Zone in Resistance Spot Welded Martensitic Boron Steel. <i>Key Engineering Materials</i> , <b>2015</b> , 639, 369-376	0.4	4
66	Deformation Scenarios of Combined Stretching and Bending in Complex Shaped Deep Drawing Parts. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 1252-1264	0.4	4
65	Effect of temperature on anisotropy in forming simulation of aluminum alloys. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 387-390	2	4
64	Determination of Flow Curves under Equibiaxial Stress Conditions. <i>Key Engineering Materials</i> , <b>2012</b> , 504-506, 53-58	0.4	4
63	Topology Optimization for additive manufacturing with distortion constraints. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 386, 114095	5.7	4
62	Evaluation and assessment of non-normal output during robust optimization. <i>Structural and Multidisciplinary Optimization</i> , <b>2019</b> , 59, 2063-2076	3.6	3
61	A Continuum Model for the Effect of Dynamic Recrystallization on the Stress?Strain Response. <i>Materials</i> , <b>2018</b> , 11,	3.5	3
60	Modelling of the austenite-martensite transformation in stainless and TRIP steels 2013,		3
59	On the performance of substructuring implicit simulation of single point incremental forming. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 559-562	2	3
58	The Stabilizing Effect of Bending-Under-Tension <b>2011</b> ,		3
57	Effect of Thickness Stress in Stretch-Bending <b>2010</b> ,		3
56	Thermo-mechanical Forming of Al-Mg-Si Alloys: Modeling and Experiments 2010,		3
55	Stable Incremental Deformation of a Strip to High Strain. <i>Key Engineering Materials</i> , <b>2007</b> , 344, 615-620	0.4	3
54	A Robust Optimisation Strategy for Metal Forming Processes. AIP Conference Proceedings, 2007,	О	3
53	Finite Element Simulation of the Stretch-Forming of Aircraft Skins. <i>AIP Conference Proceedings</i> , <b>2005</b> ,	Ο	3

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52	A mixed elastoplastic/rigidplastic material model. <i>International Journal for Numerical Methods in Engineering</i> , <b>1999</b> , 46, 1421-1434	2.4	3
51	A New in-Plane Bending Test to Determine Flow Curves for Materials with Low Uniform Elongation. <i>Experimental Mechanics</i> , <b>2020</b> , 60, 1225-1238	2.6	3
50	Investigating AlSi coating fracture at high temperatures using acoustic emission sensors. <i>Surface and Coatings Technology</i> , <b>2021</b> , 423, 127587	4.4	3
49	An Engineering Approach to Strain Rate and Temperature Compensation of the Flow Stress Established by the Hydraulic Bulge Test. <i>Key Engineering Materials</i> , <b>2015</b> , 651-653, 138-143	0.4	2
48	Friction and lubrication modelling in sheet metal forming simulations of the Volvo XC90 inner door. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032090	0.3	2
47	Numerical and Experimental Validation of a New Damage Initiation Criterion. <i>Journal of Physics:</i> Conference Series, <b>2017</b> , 896, 012080	0.3	2
46	Study on Instability and Forming Limit of Sheet Metal under Stretch-Bending. <i>Key Engineering Materials</i> , <b>2014</b> , 611-612, 84-91	0.4	2
45	Multi-stage FE simulation of hot ring rolling <b>2013</b> ,		2
44	Accurate Evaluation Method for the Hydraulic Bulge Test. Key Engineering Materials, 2013, 554-557, 33	-40.4	2
43	Incremental Sheet Forming Analysed by Tensile Tests. Key Engineering Materials, 2009, 410-411, 347-3	540.4	2
42	Influence Of The Plastic Material Behaviour On The Prediction Of Forming Limits. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	O	2
41	Strain in Shear, and Material Behaviour in Incremental Forming. Key Engineering Materials,519-526	0.4	2
40	Multiscale friction model for hot sheet metal forming. <i>Friction</i> ,1	5.6	2
39	Gradient enhanced physically based plasticity: Implementation and application to a problem pertaining size effect <b>2016</b> ,		2
38	The implications of non-anatomical positioning of a meniscus prosthesis on predicted human knee joint biomechanics. <i>Medical and Biological Engineering and Computing</i> , <b>2020</b> , 58, 1341-1355	3.1	2
37	Evolution of real area of contact due to combined normal load and sub-surface straining in sheet metal. <i>Friction</i> , <b>2021</b> , 9, 840-855	5.6	2
36	Friction in Sheet Metal Forming Simulations: Modelling of New Sheet Metal Coatings and Lubricants. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 418, 012093	0.4	2
35	Tool Texturing for Deep Drawing Applications. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 418, 012095	0.4	2

34	A Class of Rate-Independent Lower-Order Gradient Plasticity Theories: Implementation and Application to Disc Torsion Problem. <i>Materials</i> , <b>2018</b> , 11,	3.5	2
33	Inverse Identification of Process Variations for Thin Steel Sheet Bending. <i>Key Engineering Materials</i> , <b>2015</b> , 651-653, 1363-1368	0.4	1
32	Interpolation of final geometry and result fields in process parameter space. <i>MATEC Web of Conferences</i> , <b>2016</b> , 80, 13006	0.3	1
31	From specified product tolerance to acceptable material and process scatter: an inverse robust optimization approach. <i>International Journal of Material Forming</i> , <b>2020</b> , 13, 467-478	2	1
30	An RVE-Based Study of the Effect of Martensite Banding on Damage Evolution in Dual Phase Steels. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
29	Constitutive modeling of hot horming of austenitic stainless steel 316LN by accounting for recrystallization in the dislocation evolution. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032026	0.3	1
28	The effect of tooling deformation on process control in multistage metal forming 2016,		1
27	Friction in Sheet Metal Forming: Forming Simulations of Dies in Try-Out. <i>Journal of Physics:</i> Conference Series, <b>2018</b> , 1063, 012134	0.3	1
26	Experimental investigation of pinching phenomena in cold rolling of thin steel sheets 2019,		1
25	On the choice of basis in proper orthogonal decomposition-based surrogate models <b>2019</b> ,		1
24	Implementation and application of a gradient enhanced crystal plasticity model 2017,		1
23	Efficient calculation of uncertainty propagation with an application in robust optimization of forming processes <b>2017</b> ,		1
22	A nonlinear dynamic corotational finite element model for submerged pipes. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 276, 012030	0.4	1
21	Modelling of anelastic deformation in dual-phase steel for improved springback simulation. <i>Procedia Engineering</i> , <b>2017</b> , 207, 185-190		1
20	Sequential Optimization of Strip Bending Process Using Multiquadric Radial Basis Function Surrogate Models. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 911-918	0.4	1
19	A Plasticity Induced Anisotropic Damage Model for Sheet Forming Processes. <i>Key Engineering Materials</i> , <b>2013</b> , 554-557, 1245-1251	0.4	1
18	Experimental validation of numerical sensitivities in a deep drawing simulation. <i>International Journal of Material Forming</i> , <b>2008</b> , 1, 41-44	2	1
17	Do Advanced Material Models Contribute to Accuracy in Industrial Sheet Forming Simulations?. <i>Advanced Materials Research</i> , <b>2005</b> , 6-8, 71-80	0.5	1

#### LIST OF PUBLICATIONS

Evaluation of POD based surrogate models of fields resulting from nonlinear FEM simulations. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , <b>2021</b> , 8,	2.7	1
On the nonlinear anelastic behaviour of AHSS. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032100	0.3	1
Return mapping algorithm for elasto-plastic deformation of thin walled pipes. <i>International Journal of Pressure Vessels and Piping</i> , <b>2020</b> , 188, 104245	2.4	0
A Yield Criterion Based on Mean Shear Stress. <i>Key Engineering Materials</i> , <b>2014</b> , 611-612, 3-10	0.4	O
Accounting for non-normal distribution of input variables and their correlations in robust optimization. <i>Optimization and Engineering</i> ,1	2.1	0
Numerical and experimental studies of AlSi coating microstructure and its fracture at high temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 827, 142067	5.3	O
A constitutive law based on the self-consistent homogenization theory for improved springback simulation of a dual-phase steel. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1063, 012120	0.3	
Finite element modeling of pipe-laying dynamics using corotational elements. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , <b>2019</b> , 20, 293-307	0.7	
Physically Based Criterion for Prediction of Instability under Stretch-Bending of Sheet Metal. <i>Key Engineering Materials</i> , <b>2015</b> , 651-653, 144-149	0.4	
Instability Prediction during Stretch Bending of AHSS Sheet Metal. <i>Key Engineering Materials</i> , <b>2014</b> , 622-623, 1145-1151	0.4	
Transformation in Austenitic Stainless Steel Sheet under Different Loading Directions. <i>Key Engineering Materials</i> , <b>2011</b> , 473, 444-451	0.4	
Effect of heating temperatures on AlSi coating microstructure and fracture during hot-tensile tests. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012018	0.4	
Bayesian Model-based State Estimation for Mass Production Metal Forming. <i>IOP Conference Series:</i> Materials Science and Engineering, <b>2019</b> , 651, 012095	0.4	
The evolution of mechanical properties of AISI 301 as a result of phase reversion heat treatment, experiment and modeling. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1063, 012106	0.3	
Effect of temperature and heat generation on martensitic phase transformation in DH steels. <i>Results in Materials</i> , <b>2022</b> , 14, 100281	2.3	
Surface Texture Design for Sheet Metal Forming Applications. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 703-711	0.3	
	Advanced Modeling and Simulation in Engineering Sciences, 2021, 8,  On the nonlinear anelastic behaviour of AHSS. Journal of Physics: Conference Series, 2016, 734, 032100  Return mapping algorithm for elasto-plastic deformation of thin walled pipes. International Journal of Pressure Vessels and Piping, 2020, 188, 104245  A Yield Criterion Based on Mean Shear Stress. Key Engineering Materials, 2014, 611-612, 3-10  Accounting for non-normal distribution of input variables and their correlations in robust optimization. Optimization and Engineering, 1  Numerical and experimental studies of AlSi coating microstructure and its fracture at high temperatures. Materials Science & amp. Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142067  A constitutive law based on the self-consistent homogenization theory for improved springback simulation of a dual-phase steel. Journal of Physics: Conference Series, 2018, 1063, 012120  Finite element modeling of pipe-laying dynamics using corotational elements. International Journal for Computational Methods in Engineering Science and Mechanics, 2019, 20, 293-307  Physically Based Criterion for Prediction of Instability under Stretch-Bending of Sheet Metal. Key Engineering Materials, 2015, 651-653, 144-149  Instability Prediction during Stretch Bending of AHSS Sheet Metal. Key Engineering Materials, 2014, 622-623, 1145-1151  Transformation in Austenitic Stainless Steel Sheet under Different Loading Directions. Key Engineering Materials, 2011, 473, 444-451  Effect of heating temperatures on AlSi coating microstructure and fracture during hot-tensile tests. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012018  Bayesian Model-based State Estimation for Mass Production Metal Forming. IOP Conference Series: Materials Science and Engineering, 2019, 651, 012095  The evolution of mechanical properties of AISI 301 as a result of phase reversion heat treatment, experiment and modeling. Journal of Physics: Conference Series, 20	Advanced Modeling and Simulation in Engineering Sciences, 2021, 8,  On the nonlinear anelastic behaviour of AHSS. Journal of Physics: Conference Series, 2016, 734, 032100 03  Return mapping algorithm for elasto-plastic deformation of thin walled pipes. International Journal of Pressure Vessels and Piping, 2020, 188, 104245  A Yield Criterion Based on Mean Shear Stress. Key Engineering Materials, 2014, 611-612, 3-10 04  Accounting for non-normal distribution of input variables and their correlations in robust optimization. Optimization and Engineering, 1  Numerical and experimental studies of AlSi coating microstructure and its fracture at high temperatures. Materials Science & Samp: Engineering At Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142067  A constitutive law based on the self-consistent homogenization theory for improved springback simulation of a dual-phase steel. Journal of Physics: Conference Series, 2018, 1063, 012120  9.3  Finite element modeling of pipe-laying dynamics using corotational elements. International Journal for Computational Methods in Engineering Science and Mechanics, 2019, 20, 293-307  Physically Based Criterion for Prediction of Instability under Stretch-Bending of Sheet Metal. Key Engineering Materials, 2015, 651-653, 144-149  O4  Instability Prediction during Stretch Bending of AHSS Sheet Metal. Key Engineering Materials, 2014, 04  Effect of heating temperatures on AlSi coating microstructure and fracture during hot-tensile tests. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012018  Bayesian Model-based State Estimation for Mass Production Metal Forming. IOP Conference Series: Materials Science and Engineering, 2019, 651, 012095  The evolution of mechanical properties of AlSi 301 as a result of phase reversion heat treatment, experiment and modeling. Journal of Physics: Conference Series, 2018, 1063, 012106  Saysian Model-based State Estimation for Mass Production Metal Forming In DH steels. Results in Materials, 2022, 14,