

Luis Filipe F Menezes

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119
papers

2,405
citations

25
h-index

46
g-index

124
ext. papers

2,633
ext. citations

2.8
avg. IF

4.91
L-index

#	Paper	IF	Citations
119	Three-dimensional numerical simulation of the deep-drawing process using solid finite elements. <i>Journal of Materials Processing Technology</i> , 2000 , 97, 100-106	5.3	194
118	Material parameters identification: Gradient-based, genetic and hybrid optimization algorithms. <i>Computational Materials Science</i> , 2008 , 44, 339-346	3.2	142
117	Study on the influence of work-hardening modeling in springback prediction. <i>International Journal of Plasticity</i> , 2007 , 23, 516-543	7.6	133
116	Ultra-microhardness testing procedure with Vickers indenter. <i>Surface and Coatings Technology</i> , 2002 , 149, 27-35	4.4	131
115	Influence of process parameters on the deep drawing of stainless steel. <i>Finite Elements in Analysis and Design</i> , 2007 , 43, 1062-1067	2.2	105
114	Algorithms and Strategies for Treatment of Large Deformation Frictional Contact in the Numerical Simulation of Deep Drawing Process. <i>Archives of Computational Methods in Engineering</i> , 2008 , 15, 113-162	7.8	100
113	Three-dimensional numerical simulation of Vickers indentation tests. <i>International Journal of Solids and Structures</i> , 2006 , 43, 784-806	3.1	88
112	A new approach for reverse analyses in depth-sensing indentation using numerical simulation. <i>Acta Materialia</i> , 2007 , 55, 69-81	8.4	81
111	Modelling of anisotropic work-hardening behaviour of metallic materials subjected to strain-path changes. <i>Computational Materials Science</i> , 2005 , 32, 301-315	3.2	69
110	Experimental and numerical studies on the warm deep drawing of an AlMg alloy. <i>International Journal of Mechanical Sciences</i> , 2015 , 93, 59-72	5.5	66
109	On the determination of the Young's modulus of thin films using indentation tests. <i>International Journal of Solids and Structures</i> , 2007 , 44, 8313-8334	3.1	63
108	Deep drawing of aluminium-steel tailor-welded blanks. <i>Materials & Design</i> , 2008 , 29, 154-160		52
107	Experimental study of friction in sheet metal forming. <i>Wear</i> , 2011 , 271, 1651-1657	3.5	51
106	Numerical study of the plastic behaviour in tension of welds in high strength steels. <i>International Journal of Plasticity</i> , 2004 , 20, 1-18	7.6	50
105	Influence of the temperature on residual stresses and springback effect in an aluminium alloy. <i>International Journal of Mechanical Sciences</i> , 2010 , 52, 1094-1100	5.5	49
104	Effect of anisotropy on the deep-drawing of mild steel and dual-phase steel tailor-welded blanks. <i>Journal of Materials Processing Technology</i> , 2007 , 184, 288-293	5.3	49
103	Piobert's plateau and Portevin-Le Chatelier effect in an AlMg alloy in simple shear. <i>Mechanics Research Communications</i> , 2013 , 48, 1-7	2.2	40

102	Influence of the plastic anisotropy modelling in the reverse deep drawing process simulation. <i>Materials & Design</i> , 2014 , 60, 368-379		39
101	Applying Nagata patches to smooth discretized surfaces used in 3D frictional contact problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 271, 296-320	5.7	35
100	Occurrence of strain path changes in a two-stage deep drawing process. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 226-232	5.3	26
99	Automatic correction of the time step in implicit simulations of the stamping process. <i>Finite Elements in Analysis and Design</i> , 2004 , 40, 1995-2010	2.2	26
98	Experimental and numerical study of reverse re-drawing of anisotropic sheet metals. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 764-771	5.3	26
97	Thermal residual stresses in particle-reinforced viscoplastic metal matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 167, 97-105	5.3	26
96	Influence of boundary conditions on the prediction of springback and wrinkling in sheet metal forming. <i>International Journal of Mechanical Sciences</i> , 2017 , 122, 244-254	5.5	25
95	Influence of Vickers tip imperfection on depth sensing indentation tests. <i>International Journal of Solids and Structures</i> , 2007 , 44, 2732-2747	3.1	25
94	Improvement of a frictional contact algorithm for strongly curved contact problems. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 58, 2083-2101	2.4	25
93	The influence of the HAZ softening on the mechanical behaviour of welded joints containing cracks in the weld metal. <i>Engineering Fracture Mechanics</i> , 2004 , 71, 2053-2064	4.2	24
92	Mechanical characterization and constitutive parameter identification of anisotropic tubular materials for hydroforming applications. <i>International Journal of Mechanical Sciences</i> , 2015 , 104, 91-103	5.5	23
91	Modeling of tension/compression asymmetry and orthotropy on metallic materials: Numerical implementation and validation. <i>International Journal of Mechanical Sciences</i> , 2016 , 114, 217-232	5.5	23
90	Evaluation of strain and stress states in the single point incremental forming process. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 85, 521-534	3.2	23
89	Nagata patch interpolation using surface normal vectors evaluated from the IGES file. <i>Finite Elements in Analysis and Design</i> , 2013 , 72, 35-46	2.2	22
88	Numerical study of springback using the split-ring test for an AA5754 aluminum alloy. <i>Finite Elements in Analysis and Design</i> , 2010 , 46, 751-759	2.2	22
87	Trimming of 3D solid finite element meshes using parametric surfaces: Application to sheet metal forming. <i>Finite Elements in Analysis and Design</i> , 2006 , 42, 1053-1060	2.2	20
86	A new staggered algorithm for thermomechanical coupled problems. <i>International Journal of Solids and Structures</i> , 2017 , 122-123, 42-58	3.1	19
85	Numerical analysis of different heating systems for warm sheet metal forming. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 83, 897-909	3.2	19

84	Blank design for deep drawn parts using parametric NURBS surfaces. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 2402-2411	5.3	19
83	Improving Nagata patch interpolation applied for tool surface description in sheet metal forming simulation. <i>CAD Computer Aided Design</i> , 2013 , 45, 639-656	2.9	18
82	Improving Computational Performance through HPC Techniques: case study using DD3IMP in-house code 2011 ,		18
81	Numerical simulation and analysis on the deep drawing of LPG bottles. <i>Journal of Materials Processing Technology</i> , 2008 , 200, 416-423	5.3	18
80	Numerical and experimental analysis of wrinkling during the cup drawing of an AA5042 aluminium alloy. <i>International Journal of Material Forming</i> , 2017 , 10, 125-138	2	17
79	Numerical aspects of finite element simulations of residual stresses in metal matrix composites. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 50, 629-644	2.4	17
78	A model for coated surface hardness. <i>Surface and Coatings Technology</i> , 2000 , 131, 457-461	4.4	16
77	A contact smoothing method for arbitrary surface meshes using Nagata patches. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 299, 283-315	5.7	15
76	Numerical determination of the influence of the cooling rate and reinforcement volume fraction on the levels of residual stresses in AlSiC composites. <i>Computational Materials Science</i> , 2001 , 21, 26-36	3.2	15
75	Numerical simulation of tensile tests of prestrained sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 264, 130-138	5.3	15
74	Numerical study on the influence of initial anisotropy on optimal blank shape. <i>Finite Elements in Analysis and Design</i> , 2009 , 45, 71-80	2.2	13
73	A multi-step analysis for determining admissible blank-holder forces in deep-drawing operations. <i>Materials & Design</i> , 2010 , 31, 1475-1481		13
72	A benchmark for validation of numerical results in sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2004 , 155-156, 1980-1985	5.3	13
71	Thermo-mechanical finite element analysis of the AA5086 alloy under warm forming conditions. <i>International Journal of Solids and Structures</i> , 2018 , 151, 99-117	3.1	12
70	Numerical analysis on the elastic deformation of the tools in sheet metal forming processes. <i>International Journal of Solids and Structures</i> , 2016 , 100-101, 270-285	3.1	12
69	A deformation based blank design method for formed parts. <i>International Journal of Mechanics and Materials in Design</i> , 2009 , 5, 303-314	2.5	12
68	Study on springback in deep drawn tailor welded blanks. <i>International Journal of Material Forming</i> , 2009 , 2, 829-832	2	12
67	Influence of the characteristics of the experimental data set used to identify anisotropy parameters. <i>Simulation Modelling Practice and Theory</i> , 2015 , 53, 15-44	3.9	11

66	Sensitivity study on some parameters in blank design. <i>Materials & Design</i> , 2009 , 30, 1223-1230		11
65	Detailed experimental and numerical analysis of a cylindrical cup deep drawing: Pros and cons of using solid-shell elements. <i>International Journal of Material Forming</i> , 2018 , 11, 357-373	2	10
64	Numerical modeling of the thermal contact in metal forming processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 1797-1811	3.2	10
63	The coated surface hardness: a kinematic model. <i>Thin Solid Films</i> , 1998 , 335, 153-159	2.2	9
62	Non-uniform deformation after prestrain. <i>European Journal of Mechanics, A/Solids</i> , 2000 , 19, 209-221	3.7	9
61	Numerical optimization strategies for springback compensation in sheet metal forming 2017 , 51-82		8
60	Stochastic analysis of a deep drawing process using finite element simulations. <i>International Journal of Material Forming</i> , 2009 , 2, 347-350	2	8
59	Work Hardening Models and the Numerical Simulation of the Deep Drawing Process. <i>Materials Science Forum</i> , 2004 , 455-456, 717-722	0.4	8
58	Towards standard benchmarks and reference data for validation and improvement of numerical simulation in sheet metal forming. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 798-805	5.3	8
57	The punch speed influence on warm forming and springback of two Al-Mg-Si alloys. <i>Journal of Manufacturing Processes</i> , 2019 , 38, 266-278	5	7
56	Study on the effect of tension-compression asymmetry on the cylindrical cup forming of an AA2090-T3 alloy. <i>International Journal of Solids and Structures</i> , 2018 , 151, 135-144	3.1	7
55	Influence of draw restraining force on the springback in advanced high strength steels. <i>International Journal of Material Forming</i> , 2008 , 1, 177-180	2	7
54	Study on the Influence of the Refinement of a 3-D Finite Element Mesh in Springback Evaluation of Plane-Strain Channel Sections. <i>AIP Conference Proceedings</i> , 2007 ,	0	7
53	Experimental and numerical analysis of the heat generated by plastic deformation in quasi-static uniaxial tensile tests. <i>Mechanics of Materials</i> , 2020 , 146, 103398	3.3	6
52	Numerical study of springback using the split-ring test: influence of the clearance between the die and the punch. <i>International Journal of Material Forming</i> , 2018 , 11, 325-337	2	6
51	Influence of the Weld on the Mechanical Behaviour of Tailor Welded Blanks. <i>Materials Science Forum</i> , 2006 , 514-516, 1493-1500	0.4	6
50	Modelling the effect of HAZ undermatching on the crack-tip stress distribution in idealized welds. <i>International Journal of Mechanical Sciences</i> , 2004 , 46, 1481-1488	5.5	6
49	Earing Prediction in Drawing and Ironing Processes Using an Advanced Yield Criterion. <i>Key Engineering Materials</i> , 2013 , 554-557, 2266-2276	0.4	5

48	Reverse analysis in depth-sensing indentation for evaluation of the Young's modulus of thin films. <i>Philosophical Magazine</i> , 2008 , 88, 313-325	1.6	5
47	A kinematic and incremental integration model for the micromechanical numerical analysis of dual-phase materials. <i>Computational Materials Science</i> , 2002 , 25, 237-245	3.2	5
46	Trimming of 3D solid finite element meshes: sheet metal forming tests and applications. <i>Engineering With Computers</i> , 2015 , 31, 237-257	4.5	4
45	Sensitivity Analysis of Process Parameters in the Drawing and Ironing Processes. <i>Key Engineering Materials</i> , 2013 , 554-557, 2256-2265	0.4	4
44	Young's modulus of thin films using depth-sensing indentation. <i>Philosophical Magazine Letters</i> , 2010 , 90, 9-22	1	4
43	Lightweight metal alloy tailor welded blanks 2011 , 97-117		4
42	Cazacu and Barlat Criterion Identification Using the Cylindrical Cup Deep Drawing Test and the Coupled Artificial Neural Networks Genetic Algorithm Method. <i>Key Engineering Materials</i> , 2012 , 504-506, 637-642	0.4	4
41	Local Interpolation for Tools Surface Description 2010 ,		4
40	Optimization of the Phenomenological Constitutive Models Parameters Using Genetic Algorithms 2007 , 35-54		4
39	Numerical analysis of large deformation processes at elevated temperatures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 3947-3959	5.7	4
38	On the evaluation of the ductility of thin films. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 337, 97-103	5.3	4
37	Drawbeads: to Be or Not to Be. <i>AIP Conference Proceedings</i> , 2005 ,	0	4
36	Effect of the Substrate Thermal Expansion Coefficient on the Thermal Residual Stresses in W-Si-N Sputtered Films. <i>Key Engineering Materials</i> , 2002 , 230-232, 513-516	0.4	4
35	Constitutive parameter identification of CB2001 yield function and its experimental verification using tube hydroforming tests. <i>International Journal of Mechanical Sciences</i> , 2020 , 185, 105868	5.5	3
34	Springback Evaluation with Several Phenomenological Yield Criteria. <i>Materials Science Forum</i> , 2004 , 455-456, 732-736	0.4	3
33	Numerical Study of the Influence of Imperfection of the Tip of a Vickers Indenter on Ultramicrohardness Test Results. <i>Key Engineering Materials</i> , 2002 , 230-232, 525-528	0.4	3
32	Thermomechanical analysis of the draw bead test. <i>Advances in Materials and Processing Technologies</i> , 2019 , 5, 401-417	0.8	2
31	Prediction of wrinkling and springback in sheet metal forming. <i>MATEC Web of Conferences</i> , 2016 , 80, 03005	0.3	2

30	Study on the influence of orthotropy and tension-compression asymmetry of metal sheets in springback and formability predictions. <i>Journal of Physics: Conference Series</i> , 2018 , 1063, 012053	0.3	2
29	Finite Element Analysis of the Amontons-Coulomb Model using Local and Global Friction Tests 2011 ,		2
28	Application of the Incremental Volumetric Remapping Method in the Simulation of Multi-Step Deep Drawing Processes. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
27	Comparison of Experimental and Simulated Results for a Mild Steel and a Dual-Phase Steel Deformed under Tension and Deep-Drawing. <i>Key Engineering Materials</i> , 2002 , 230-232, 549-554	0.4	2
26	Tension-compression asymmetry modelling: strategies for anisotropy parameters identification.. <i>MATEC Web of Conferences</i> , 2016 , 80, 05002	0.3	1
25	Study on the influence of the yield surface shape in the hole expansion test. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 967, 012085	0.4	1
24	Influence of the characteristics of the 3D FE mesh on the evolution of variables used to characterize the stress state 2019 ,		1
23	The role of tension-compression asymmetry of the plastic flow on ductility and damage accumulation of porous polycrystals. <i>Ciência & Tecnologia Dos Materiais</i> , 2017 , 29, e234-e238		1
22	Applying Nagata Patches in the Description of Smooth Tool Surfaces Used in Sheet Metal Forming Simulations. <i>Key Engineering Materials</i> , 2013 , 554-557, 2277-2284	0.4	1
21	Thermal Residual Stresses in Aluminium Matrix Composites. <i>Advanced Structured Materials</i> , 2010 , 33-62	0.6	1
20	Local Bifurcation and Instability Theory Applied to Formability Analysis 2010 ,		1
19	Finite Element Analysis on the Influence of Material Mechanical Properties in Local Contact Conditions. <i>International Journal of Material Forming</i> , 2010 , 3, 139-142	2	1
18	Kinematic Hardening: Characterization, Modeling and Impact on Springback Prediction. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
17	Large Deformation Processes on AA1050-O Aluminium at Elevated Temperatures. <i>Materials Science Forum</i> , 2004 , 455-456, 723-727	0.4	1
16	Numerical Simulation of Ultramicrohardness Tests in Thin Films. <i>Materials Science Forum</i> , 2004 , 455-456, 694-698	0.4	1
15	Reverse Deep Drawing: Experimental and Numerical Simulation Results. <i>Key Engineering Materials</i> , 2002 , 230-232, 541-544	0.4	1
14	Incremental volumetric and Dual Kriging remapping methods. <i>Finite Elements in Analysis and Design</i> , 2018 , 139, 35-48	2.2	1
13	The influence of warm forming conditions on the natural aging and springback of a 6016-T4 aluminum alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 418, 012020	0.4	1

- 12 Automatic correction of the time step in implicit simulations of thermomechanical problems. *MATEC Web of Conferences*, **2016**, 80, 07002 0.3
- 11 On the impact of modelling tension-compression asymmetry on earing and thickness predictions. *Advances in Materials and Processing Technologies*, **2019**, 5, 445-460 0.8
- 10 Local bifurcation and instability theory applied to formability analysis. *International Journal of Material Forming*, **2011**, 4, 347-356 2
- 9 Finite element analysis of the influence of the restraining force in the draw bend test. *International Journal of Material Forming*, **2010**, 3, 143-146 2
- 8 Evolutional Friction Law in the Numerical Simulation of the Deep Drawing of a Rail. *Materials Science Forum*, **2006**, 514-516, 1443-1447 0.4
- 7 Strain and Stress Distribution in Vickers Indentation of Coated Materials. *Materials Science Forum*, **2006**, 514-516, 1472-1476 0.4
- 6 An Investigation of the Influence of Strength Mis-Matching and HAZ Width on the Fracture Behaviour of Welds with Cracks in the WM/HAZ Interface. *Materials Science Forum*, **2004**, 455-456, 685-689^{0.4}
- 5 Numerical Analysis on the Effects of the Friction Coefficient on the Deep Drawing of a Rail. *Materials Science Forum*, **2004**, 455-456, 737-741 0.4
- 4 Influence of Plastic Deformation of the Heat Affected Zone on the Mechanical Behaviour of Welds in High Strength Steels. *Key Engineering Materials*, **2003**, 233-236, 791-796 0.4
- 3 Positron studies in polycrystalline deformed copper. *Crystal Research and Technology*, **1987**, 22, K185-K189
- 2 Sliding Friction: Global Versus Local Analysis 165-170
- 1 Evaluating the influence of the deformation of the forming tools in the thickness distribution along the wall of a cylindrical cup. *IOP Conference Series: Materials Science and Engineering*, **2022**, 1238, 012079^{0.4}