Mc Oliveira

List of Publications by Year
in descending order

155	2,576	236925	254184
papers	citations	25 h-index	43 g-index

157	157	157	1764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of the contact with friction on the deformation behavior of advanced high strength steels in the Nakajima test. Journal of Strain Analysis for Engineering Design, 2022, 57, 193-207.	1.8	9
2	Machine Learning for the Prediction of Edge Cracking in Sheet Metal Forming Processes. Management and Industrial Engineering, 2022, , 127-144.	0.4	0
3	Hot tensile and expansion tests of DuctiborÂ®1000 steel. IOP Conference Series: Materials Science and Engineering, 2022, 1238, 012054.	0.6	0
4	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.	0.6	0
5	Study on the influence of the strain rate sensitivity on the springback of the AA5086 alloy under warm forming conditions. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012043.	0.6	0
6	On the effect of the ratio between the yield stresses in shear and in uniaxial tension on forming of isotropic materials. Mechanics Research Communications, 2021, 114, 103693.	1.8	3
7	Influence of the orthotropic behaviour on defects prediction in cup drawing, reverse redrawing and expansion. IOP Conference Series: Materials Science and Engineering, 2021, 1157, 012072.	0.6	0
8	Inverse identification of the work hardening law from circular and elliptical bulge tests. Journal of Materials Processing Technology, 2020, 279, 116573.	6.3	12
9	Single and ensemble classifiers for defect prediction in sheet metal forming under variability. Neural Computing and Applications, 2020, 32, 12335-12349.	5.6	27
10	Issues on the Correlation between Experimental and Numerical Results in Sheet Metal Forming Benchmarks. Metals, 2020, 10, 1595.	2.3	1
11	Study on the influence of the yield surface shape in the hole expansion test. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012085.	0.6	3
12	Heat generation when forming AHSS: experimental and numerical analysis of tensile and draw-bead tests. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012086.	0.6	0
13	Numerical analysis of the bulge test in temperature for the EN AW 6061-T6 sheet. IOP Conference Series: Materials Science and Engineering, 2020, 967, 012024.	0.6	1
14	Performance Comparison of Parametric and Non-Parametric Regression Models for Uncertainty Analysis of Sheet Metal Forming Processes. Metals, 2020, 10, 457.	2.3	12
15	Constitutive parameter identification of CB2001 yield function and its experimental verification using tube hydroforming tests. International Journal of Mechanical Sciences, 2020, 185, 105868.	6.7	11
16	Experimental and numerical analysis of the heat generated by plastic deformation in quasi-static uniaxial tensile tests. Mechanics of Materials, 2020, 146, 103398.	3.2	14
17	Numerical Study on the Forming Behaviour of Multilayer Sheets. Metals, 2020, 10, 716.	2.3	2
18	A Modified Hockett-Sherby Law Enabling the Description of the Thermomechanical Behaviour of the AA6061-T6. Procedia Manufacturing, 2020, 47, 896-903.	1.9	7

#	ARTICLE	IF	CITATIONS
19	Numerical Analysis of Residual Stresses in Parts Produced by Selective Laser Melting Process. Procedia Manufacturing, 2020, 47, 1170-1177.	1.9	25
20	On the impact of modelling tension-compression asymmetry on earing and thickness predictions. Advances in Materials and Processing Technologies, 2019, 5, 445-460.	1.4	0
21	The role of viscoelasticity in the mechanical modelling of rubbers. AIP Conference Proceedings, 2019, , .	0.4	0
22	Comparing metamodeling techniques for variability analysis in sheet metal forming processes. AIP Conference Proceedings, 2019, , .	0.4	3
23	Numerical Study on the Formability of Metallic Bipolar Plates for Proton Exchange Membrane (PEM) Fuel Cells. Metals, 2019, 9, 810.	2.3	20
24	Influence of the characteristics of the 3D FE mesh on the evolution of variables used to characterize the stress state. AIP Conference Proceedings, 2019, , .	0.4	1
25	Normal stress components during shear tests of metal sheets. International Journal of Mechanical Sciences, 2019, 164, 105169.	6.7	10
26	The punch speed influence on warm forming and springback of two Al-Mg-Si alloys. Journal of Manufacturing Processes, 2019, 38, 266-278.	5.9	10
27	Analytical sensitivity matrix for the inverse identification of hardening parameters of metal sheets. European Journal of Mechanics, A/Solids, 2019, 75, 205-215.	3.7	4
28	Thermomechanical analysis of the draw bead test. Advances in Materials and Processing Technologies, 2019, 5, 401-417.	1.4	2
29	Evaluation of the stress vs strain curve using a high temperature bulge test device. IOP Conference Series: Materials Science and Engineering, 2019, 651, 012048.	0.6	4
30	Modelling and Simulation of Sheet Metal Forming Processes. Metals, 2019, 9, 1356.	2.3	9
31	The influence of warm forming in natural aging and springback of Al-Mg-Si alloys. International Journal of Material Forming, 2019, 12, 57-68.	2.0	16
32	Effect of yield stress on fatigue crack growth. Frattura Ed Integrita Strutturale, 2019, 13, 9-19.	0.9	4
33	Numerical study on the effect of mechanical properties variability in sheet metal forming processes. International Journal of Advanced Manufacturing Technology, 2018, 96, 561-580.	3.0	14
34	Numerical study of springback using the split-ring test: influence of the clearance between the die and the punch. International Journal of Material Forming, 2018, 11, 325-337.	2.0	7
35	Detailed experimental and numerical analysis of a cylindrical cup deep drawing: Pros and cons of using solid-shell elements. International Journal of Material Forming, 2018, 11, 357-373.	2.0	16
36	Thermo-mechanical finite element analysis of the AA5086 alloy under warm forming conditions. International Journal of Solids and Structures, 2018, 151, 99-117.	2.7	14

#	Article	IF	Citations
37	Study on the effect of tension-compression asymmetry on the cylindrical cup forming of an AA2090-T3 alloy. International Journal of Solids and Structures, 2018, 151, 135-144.	2.7	9
38	Incremental volumetric and Dual Kriging remapping methods. Finite Elements in Analysis and Design, 2018, 139, 35-48.	3.2	1
39	Temperature analysis during the drawing of an aluminum cylindrical cup. Journal of Physics: Conference Series, 2018, 1063, 012137.	0.4	1
40	The influence of warm forming conditions on the natural aging and springback of a 6016-T4 aluminum alloy. IOP Conference Series: Materials Science and Engineering, 2018, 418, 012020.	0.6	1
41	Study of the frictional contact conditions in the hole expansion test. Journal of Physics: Conference Series, 2018, 1063, 012139.	0.4	3
42	Study on the influence of orthotropy and tensionâ€“compression asymmetry of metal sheets in springback and formability predictions. Journal of Physics: Conference Series, 2018, 1063, 012053.	0.4	2
43	Surface Smoothing Procedures in Computational Contact Mechanics. Archives of Computational Methods in Engineering, 2017, 24, 37-87.	10.2	33
44	Numerical and experimental analysis of wrinkling during the cup drawing of an AA5042 aluminium alloy. International Journal of Material Forming, 2017, 10, 125-138.	2.0	22
45	Inverse identification of the Swift law parameters using the bulge test. International Journal of Material Forming, 2017, 10, 493-513.	2.0	13
46	Influence of boundary conditions on the prediction of springback and wrinkling in sheet metal forming. International Journal of Mechanical Sciences, 2017, 122, 244-254.	6.7	35
47	Anisotropy and plastic flow in the circular bulge test. International Journal of Mechanical Sciences, 2017, 128-129, 70-93.	6.7	15
48	Influence of Portevin-Le Chatelier Effect on Shear Strain Path Reversal in an Al-Mg Alloy at Room and High Temperatures. Experimental Mechanics, 2017, 57, 405-415.	2.0	10
49	A new staggered algorithm for thermomechanical coupled problems. International Journal of Solids and Structures, 2017, 122-123, 42-58.	2.7	28
50	The role of tension-compression asymmetry of the plastic flow on ductility and damage accumulation of porous polycrystals. CiÃªncia & Tecnologia Dos Materiais, 2017, 29, e234-e238.	0.5	3
51	Numerical optimization strategies for springback compensation in sheet metal forming. , 2017, , 51-82.		16
52	Tension-compression asymmetry modelling: strategies for anisotropy parameters identification.. MATEC Web of Conferences, 2016, 80, 05002.	0.2	1
53	Automatic correction of the time step in implicit simulations of thermomechanical problems. MATEC Web of Conferences, 2016, 80, 07002.	0.2	0
54	Benchmark 2 â€“ Springback of a Jaguar Land Rover Aluminium. Journal of Physics: Conference Series, 2016, 734, 022002.	0.4	9

#	ARTICLE	IF	CITATIONS
55	Inverse Strategies for Identifying the Parameters of Constitutive Laws of Metal Sheets. Advances in Materials Science and Engineering, 2016, 2016, 1-18.	1.8	27
56	A staggered coupling strategy for the finite element analysis of warm deep drawing process. Journal of Physics: Conference Series, 2016, 734, 032033.	0.4	1
57	DD3MAT - a code for yield criteria anisotropy parameters identification.. Journal of Physics: Conference Series, 2016, 734, 032053.	0.4	6
58	Natural aging effect on the forming behavior of a cylindrical cup with an Al-Mg-Si alloy. AIP Conference Proceedings, 2016, , .	0.4	4
59	Three-Dimensional Computational Analysis of Stress State Transition in Through-Cracked Plates. Mathematics in Computer Science, 2016, 10, 343-352.	0.4	12
60	Numerical analysis on the elastic deformation of the tools in sheet metal forming processes. International Journal of Solids and Structures, 2016, 100-101, 270-285.	2.7	19
61	Prediction of wrinkling and springback in sheet metal forming. MATEC Web of Conferences, 2016, 80, 03005.	0.2	3
62	Remapping algorithms: application to trimming operations in sheet metal forming. Journal of Physics: Conference Series, 2016, 734, 032046.	0.4	1
63	Modeling of tensionâ€“compression asymmetry and orthotropy on metallic materials: Numerical implementation and validation. International Journal of Mechanical Sciences, 2016, 114, 217-232.	6.7	30
64	Numerical modeling of the thermal contact in metal forming processes. International Journal of Advanced Manufacturing Technology, 2016, 87, 1797-1811.	3.0	12
65	On the determination of the work hardening curve using the bulge test. International Journal of Mechanical Sciences, 2016, 105, 158-181.	6.7	25
66	A contact smoothing method for arbitrary surface meshes using Nagata patches. Computer Methods in Applied Mechanics and Engineering, 2016, 299, 283-315.	6.6	17
67	Numerical analysis of different heating systems for warm sheet metal forming. International Journal of Advanced Manufacturing Technology, 2016, 83, 897-909.	3.0	24
68	Evaluation of strain and stress states in the single point incremental forming process. International Journal of Advanced Manufacturing Technology, 2016, 85, 521-534.	3.0	29
69	Identification of material parameters for thin sheets from single biaxial tensile test using a sequential inverse identification strategy. International Journal of Material Forming, 2016, 9, 547-571.	2.0	17
70	Experimental and numerical studies on the warm deep drawing of an Alâ€“Mg alloy. International Journal of Mechanical Sciences, 2015, 93, 59-72.	6.7	78
71	On the identification of kinematic hardening with reverse shear test. Engineering With Computers, 2015, 31, 681-690.	6.1	9
72	Influence of the characteristics of the experimental data set used to identify anisotropy parameters. Simulation Modelling Practice and Theory, 2015, 53, 15-44.	3.8	17

#	ARTICLE	IF	CITATIONS
73	Mechanical characterization and constitutive parameter identification of anisotropic tubular materials for hydroforming applications. International Journal of Mechanical Sciences, 2015, 104, 91-103.	6.7	26
74	Sensitivity Analysis for Numerical Sheet Metal Forming Processes. Key Engineering Materials, 2015, 651-653, 1369-1374.	0.4	1
75	On the equivalence between sets of parameters of the yield criterion and the isotropic and kinematic hardening laws. International Journal of Material Forming, 2015, 8, 505-515.	2.0	13
76	Comparing faceted and smoothed tool surface descriptions in sheet metal forming simulation. International Journal of Material Forming, 2015, 8, 549-565.	2.0	10
77	Trimming of 3D solid finite element meshes: sheet metal forming tests and applications. Engineering With Computers, 2015, 31, 237-257.	6.1	5
78	The Effect of Vacancy Defects on the Evaluation of the Mechanical Properties of Single-Wall Carbon Nanotubes: Numerical Simulation Study. Advanced Structured Materials, 2015, , 323-339.	0.5	0
79	A multidisciplinary framework to support the design of injection mold tools. Structural and Multidisciplinary Optimization, 2014, 49, 501-521.	3.5	13
80	Influence of the plastic anisotropy modelling in the reverse deep drawing process simulation. Materials & Design, 2014, 60, 368-379.	5.1	50
81	Applying Nagata patches to smooth discretized surfaces used in 3D frictional contact problems. Computer Methods in Applied Mechanics and Engineering, 2014, 271, 296-320.	6.6	39
82	A new strategy for the simultaneous identification of constitutive laws parameters of metal sheets using a single test. Computational Materials Science, 2014, 85, 102-120.	3.0	32
83	Improving Nagata patch interpolation applied for tool surface description in sheet metal forming simulation. CAD Computer Aided Design, 2013, 45, 639-656.	2.7	19
84	Piobertâ€“LÃ¼ders plateau and Portevinâ€“Le Chatelier effect in an Alâ€“Mg alloy in simple shear. Mechanics Research Communications, 2013, 48, 1-7.	1.8	49
85	On the determination of the film hardness in hard film/substrate composites using depth-sensing indentation. Ceramics International, 2013, 39, 6251-6263.	4.8	15
86	Nagata patch interpolation using surface normal vectors evaluated from the IGES file. Finite Elements in Analysis and Design, 2013, 72, 35-46.	3.2	22
87	Pre-strain effect on springback of 2D draw bending. International Journal of Materials Engineering Innovation, 2013, 4, 187.	0.5	1
88	On the influence of the yield parameters identification procedure in cylindrical cups earing prediction. , 2013, , .		3
89	Inverse analysis methodology on metal sheets for constitutive parameters identification. International Journal of Materials Engineering Innovation, 2013, 4, 101.	0.5	1
90	Cazacu and Barlat Criterion Identification Using the Cylindrical Cup Deep Drawing Test and the Coupled Artificial Neural Networks â€“ Genetic Algorithm Method. Key Engineering Materials, 2012, 504-506, 637-642.	0.4	5

#	ARTICLE	IF	CITATIONS
91	Numerical Study of Mechanical Behaviour of Heterogeneous Materials. Materials Science Forum, 2012, 730-732, 549-554.	0.3	0
92	Analysis of friction in the ejection of thermoplastic mouldings. International Journal of Advanced Manufacturing Technology, 2012, 59, 977-986.	3.0	17
93	A Simple Method for Estimation of Residual Stresses by Depthâ€Sensing Indentation. Strain, 2012, 48, 75-87.	2.4	19
94	Experimental study of friction in sheet metal forming. Wear, 2011, 271, 1651-1657.	3.1	70
95	Local bifurcation and instability theory applied to formability analysis. International Journal of Material Forming, 2011, 4, 347-356.	2.0	2
96	Improving Computational Performance through HPC Techniques: case study using DD3IMP in-house code. , 2011, , .		18
97	Lightweight metal alloy tailor welded blanks. , 2011, , 97-117.		5
98	Mechanical Behaviour and Springback Study of an Aluminium Alloy in Warm Forming Conditions. ISRN Mechanical Engineering, 2011, 2011, 1-9.	0.9	19
99	Finite Element Analysis of the Amontons-Coulombâ€™s Model using Local and Global Friction Tests. AIP Conference Proceedings, 2011, , .	0.4	2
100	Local Bifurcation and Instability Theory Applied to Formability Analysis. , 2010, , .		1
101	Local Interpolation for Tools Surface Description. , 2010, , .		4
102	Finite Element Analysis on the Influence of Material Mechanical Properties in Local Contact Conditions. International Journal of Material Forming, 2010, 3, 139-142.	2.0	1
103	Finite element analysis of the influence of the restraining force in the draw bend test. International Journal of Material Forming, 2010, 3, 143-146.	2.0	0
104	Influence of ductile interlayers on mechanical behaviour of hard coatings under depth-sensing indentation: a numerical study on TiAlN. Journal of Materials Science, 2010, 45, 3812-3823.	3.7	47
105	Numerical study of springback using the split-ring test for an AA5754 aluminum alloy. Finite Elements in Analysis and Design, 2010, 46, 751-759.	3.2	23
106	A Numerical Study on the Mechanical Behaviour of Hard Coatings with Ductile Interlayers under Depth-Sensing Indentation. Materials Science Forum, 2010, 636-637, 1194-1198.	0.3	1
107	Young's modulus of thin films using depth-sensing indentation. Philosophical Magazine Letters, 2010, 90, 9-22.	1.2	6
108	On the characterization of the plastic anisotropy in orthotropic sheet metals with a cruciform biaxial test. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012142.	0.6	6

#	Article	IF	Citations
109	A deformation based blank design method for formed parts. International Journal of Mechanics and Materials in Design, 2009, 5, 303-314.	3.0	17
110	Stochastic analysis of a deep drawing process using finite element simulations. International Journal of Material Forming, 2009, 2, 347-350.	2.0	9
111	Study on springback in deep drawn tailor welded blanks. International Journal of Material Forming, 2009, 2, 829-832.	2.0	15
112	Numerical study on the influence of initial anisotropy on optimal blank shape. Finite Elements in Analysis and Design, 2009, 45, 71-80.	3.2	17
113	Blank design for deep drawn parts using parametric NURBS surfaces. Journal of Materials Processing Technology, 2009, 209, 2402-2411.	6.3	23
114	Sensitivity study on some parameters in blank design. Materials & Design, 2009, 30, 1223-1230.	5.1	13
115	Comparison between Berkovich, Vickers and conical indentation tests: A three-dimensional numerical simulation study. International Journal of Solids and Structures, 2009, 46, 1095-1104.	2.7	182
116	Algorithms and Strategies for Treatment of Large Deformation Frictional Contact in the Numerical Simulation of Deep Drawing Process. Archives of Computational Methods in Engineering, 2008, 15, 113-162.	10.2	113
117	Influence of draw restraining force on the springback in advanced high strength steels. International Journal of Material Forming, 2008, 1, 177-180.	2.0	7
118	Deep drawing of aluminiumâ€“steel tailor-welded blanks. Materials & Design, 2008, 29, 154-160.	5.1	56
119	Numerical simulation and analysis on the deep drawing of LPG bottles. Journal of Materials Processing Technology, 2008, 200, 416-423.	6.3	24
120	The Influence of the Substrate on the Mechanical Properties of Si-Doped DLC Thin Films. Materials Science Forum, 2008, 587-588, 839-843.	0.3	1
121	Influence of Anisotropy Properties in Finite Element Optimization of Blank Shape Using NURBS Surfaces. AIP Conference Proceedings, 2007, , .	0.4	0
122	Influence of Drawbeads in Deep-Drawing of Plane-Strain Channel Sections: Experimental and FE Analysis. AIP Conference Proceedings, 2007, , .	0.4	0
123	Study on the Influence of the Refinement of a 3-D Finite Element Mesh in Springback Evaluation of Plane-Strain Channel Sections. AIP Conference Proceedings, 2007, , .	0.4	8
124	Kinematic Hardening: Characterization, Modeling and Impact on Springback Prediction. AIP Conference Proceedings, 2007, , .	0.4	1
125	Incremental Volumetric Remapping Method: Analysis and Error Evaluation. AIP Conference Proceedings, 2007, , .	0.4	1
126	On the determination of the Youngâ€™s modulus of thin films using indentation tests. International Journal of Solids and Structures, 2007, 44, 8313-8334.	2.7	76

#	Article	IF	Citations
127	A new approach for reverse analyses in depth-sensing indentation using numerical simulation. Acta Materialia, 2007, 55, 69-81.	7.9	99
128	Influence of process parameters on the deep drawing of stainless steel. Finite Elements in Analysis and Design, 2007, 43, 1062-1067.	3.2	129
129	Study on the influence of work-hardening modeling in springback prediction. International Journal of Plasticity, 2007, 23, 516-543.	8.8	147
130	Effect of anisotropy on the deep-drawing of mild steel and dual-phase steel tailor-welded blanks. Journal of Materials Processing Technology, 2007, 184, 288-293.	6.3	62
131	Evolutional Friction Law in the Numerical Simulation of the Deep Drawing of a Rail. Materials Science Forum, 2006, 514-516, 1443-1447.	0.3	0
132	Optimizing the Description of Forming Tools with BÃ©zier Surfaces in the Numerical Simulation of the Deep Drawing Process. , 2006, , 332-332.		1
133	Drawbeads: to Be or Not to Be. AIP Conference Proceedings, 2005, , .	0.4	6
134	Study on the Influence of the Work Hardening Models Constitutive Parameters Identification in the Springback Prediction. AIP Conference Proceedings, 2005, , .	0.4	1
135	Application of the Incremental Volumetric Remapping Method in the Simulation of Multi-Step Deep Drawing Processes. AIP Conference Proceedings, 2005, , .	0.4	5
136	Modelling of anisotropic work-hardening behaviour of metallic materials subjected to strain-path changes. Computational Materials Science, 2005, 32, 301-315.	3.0	74
137	Numerical Simulation of the Deep Drawing Process: Modelling the Blank Holder. AIP Conference Proceedings, 2004, , .	0.4	0
138	Springback Evaluation with Several Phenomenological Yield Criteria. Materials Science Forum, 2004, 455-456, 732-736.	0.3	5
139	Numerical Analysis on the Effects of the Friction Coefficient on the Deep Drawing of a Rail. Materials Science Forum, 2004, 455-456, 737-741.	0.3	1
140	Work Hardening Models and the Numerical Simulation of the Deep Drawing Process. Materials Science Forum, 2004, 455-456, 717-722.	0.3	11
141	An advanced constitutive model in the sheet metal forming simulation: the Teodosiu microstructural model and the Cazacu Barlat yield criterion. AIP Conference Proceedings, 2004, , .	0.4	3
142	A benchmark for validation of numerical results in sheet metal forming. Journal of Materials Processing Technology, 2004, 155-156, 1980-1985.	6.3	15
143	Automatic correction of the time step in implicit simulations of the stamping process. Finite Elements in Analysis and Design, 2004, 40, 1995-2010.	3.2	26
144	Improvement of a frictional contact algorithm for strongly curved contact problems. International Journal for Numerical Methods in Engineering, 2003, 58, 2083-2101.	2.8	30

#	ARTICLE	IF	CITATIONS
145	Reverse Deep Drawing: Experimental and Numerical Simulation Results. Key Engineering Materials, 2002, 230-232, 541-544.	0.4	1
146	Experimental and numerical study of reverse re-drawing of anisotropic sheet metals. Journal of Materials Processing Technology, 2002, 125-126, 764-771.	6.3	28
147	Towards standard benchmarks and reference data for validation and improvement of numerical simulation in sheet metal forming. Journal of Materials Processing Technology, 2002, 125-126, 798-805.	6.3	8
148	Corrosion Behaviour of Commercial NdFeB Magnets-The Effect of Magnetization. Key Engineering Materials, 2001, 189-191, 340-345.	0.4	4
149	Earing Prediction in Drawing and Ironing Processes Using an Advanced Yield Criterion. Key Engineering Materials, 0, 554-557, 2266-2276.	0.4	5
150	Sensitivity Analysis of Process Parameters in the Drawing and Ironing Processes. Key Engineering Materials, 0, 554-557, 2256-2265.	0.4	4
151	How to Combine the Parameters of the Yield Criteria and the Hardening Law. Key Engineering Materials, 0, 554-557, 1195-1202.	0.4	3
152	Applying Nagata Patches in the Description of Smooth Tool Surfaces Used in Sheet Metal Forming Simulations. Key Engineering Materials, 0, 554-557, 2277-2284.	0.4	1
153	EARING EVOLUTION DURING DRAWING AND IRONING PROCESSES. , 0, , .		2
154	FEA OF FRICTIONAL CONTACT PROBLEMS USING NAGATA PATCHES FOR SURFACES DESCRIPTION. , 0, , .		2
155	Assessment of Work-Hardening Behavior of Sheet Metal Materials Using Meso- and Macro-Scale Specimens. , 0, , .		0