Ana Reis

List of Publications by Year
in descending order

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49 papers	535 citations	759233 12 h-index	752698 20 g-index
50 all docs	50 docs citations	50 times ranked	499 citing authors

#	Article	IF	Citations
1	Improving the environmental performance of machine-tools: influence of technology and throughput on the electrical energy consumption of a press-brake. Journal of Cleaner Production, 2011, 19, 356-364.	9.3	77
2	Mandible reconstruction. Prosthetics and Orthotics International, 2015, 39, 182-189.	1.0	43
3	Single point incremental forming of a facial implant. Prosthetics and Orthotics International, 2014, 38, 369-378.	1.0	39
4	The use of finite element simulation for optimization of metal forming and tool design. Journal of Materials Processing Technology, 2001, 119, 152-157.	6.3	36
5	Tailored welded blanksâ€“â€“an experimental and numerical study in sheet metal forming on the effect of welding. Computers and Structures, 2004, 82, 1435-1442.	4.4	34
6	Characterizing fracture forming limit and shear fracture forming limit for sheet metals. Journal of Materials Processing Technology, 2018, 255, 886-897.	6.3	33
7	Microstructural investigation and lubrication study for single point incremental forming of copper. International Journal of Solids and Structures, 2018, 151, 145-151.	2.7	29
8	Design and validation of a short-implant rehabilitation model. Revista Portuguesa De Estomatologia, Medicina Dentaria E Cirurgia Maxilofacial, 2017, 58, .	0.0	17
9	An innovation in finite element simulation via crystal plasticity assessment of grain morphology effect on sheet metal formability. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 1937-1951.	1.1	16
10	A benchmark for validation of numerical results in sheet metal forming. Journal of Materials Processing Technology, 2004, 155-156, 1980-1985.	6.3	15
11	Single Point Incremental Forming of a Medical Implant. Key Engineering Materials, 0, 554-557, 1388-1393.	0.4	15
12	Optimization of Direct Laser Deposition of a Martensitic Steel Powder (Metco 42C) on 42CrMo4 Steel. Metals, 2021, 11, 672.	2.3	15
13	Study of Tool Trajectory in Incremental Forming. Advanced Materials Research, 2012, 472-475, 1586-1591.	0.3	14
14	An engineering-based approach for design and fabrication of a customized nasal prosthesis. Prosthetics and Orthotics International, 2015, 39, 422-428.	1.0	14
15	Deposition of Nickel-Based Superalloy Claddings on Low Alloy Structural Steel by Direct Laser Deposition. Metals, 2021, 11, 1326.	2.3	14
16	Mechanical and microstructural characterisation of bulk Inconel 625 produced by direct laser deposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 838, 142777.	5.6	13
17	Impact of Laser-Based Technologies in the Energy-Consumption of Metal Cutters: Comparison between Commercially Available Systems. Key Engineering Materials, 2011, 473, 809-815.	0.4	9
18	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

#	Article	IF	Citations
19	Influence of Surface Preparation on the Interface of Al-Cu Joints Produced by Magnetic Pulse Welding. Metals, 2020, 10, 997.	2.3	7
20	Comparison of two LCA Methodologies in the Machine-Tools Environmental Performance Improvement Process. , 2011, , 575-580.		7
21	Thermal study of a cladding layer of Inconel 625 in Directed Energy Deposition (DED) process using a phase-field model. International Journal of Advanced Manufacturing Technology, 2022, 119, 3975-3993.	3.0	7
22	Mechanical and microstructural characterisation of Inconel 625 - AISI 431 steel bulk produced by direct laser deposition. Journal of Materials Processing Technology, 2022, 306, 117603.	6.3	7
23	Inconel 625/AISI 413 Stainless Steel Functionally Graded Material Produced by Direct Laser Deposition. Materials, 2021, 14, 5595.	2.9	6
24	Lubrication study for Single Point Incremental Forming of Copper. Journal of Physics: Conference Series, 2016, 734, 032038.	0.4	5
25	Preventing Wine Counterfeiting by Individual Cork Stopper Recognition Using Image Processing Technologies. Journal of Imaging, 2018, 4, 54.	3.0	5
26	Image-Based Object Spoofing Detection. Lecture Notes in Computer Science, 2018, , 189-201.	1.3	5
27	Inverse Characterization of Material Constitutive Parameters for Dynamic Applications. Procedia Engineering, 2015, 114, 784-791.	1.2	4
28	Machinability of the 18Ni300 Additively Manufactured Maraging Steel Based on Orthogonal Cutting Tests. Lecture Notes in Mechanical Engineering, 2022, , 1-13.	0.4	4
29	Laser Deposited 18Ni300 Alloy Powder on 1045 Steel: Effect of Passes and Preheating on Microstructure. Materials, 2022, 15, 1209.	2.9	4
30	Numerical Simulation and Defect Identification in the Casting of Co-Cr Alloy. Metals, 2022, 12, 351.	2.3	4
31	Integrated thermomechanical model for forming of glass containers. MATEC Web of Conferences, 2016, 80, 16010.	0.2	3
32	Design of an Embedded Multi-Camera Vision Systemâ€"A Case Study in Mobile Robotics. Robotics, 2018, 7, 12.	3.5	3
33	Cork as a Unique Object: Device, Method, and Evaluation. Applied Sciences (Switzerland), 2018, 8, 2150.	2.5	3
34	Fracture Prediction Based on Evaluation of Initial Porosity Induced By Direct Energy Deposition. European Journal of Computational Mechanics, 0, , .	0.0	3
35	Numerical-Experimental Plastic-Damage Characterisation of Additively Manufactured 18Ni300 Maraging Steel by Means of Multiaxial Double-Notched Specimens. Journal of Manufacturing and Materials Processing, 2021, 5, 84.	2.2	3
36	Damage prediction in incremental forming by using Lemaitre damage model. AIP Conference Proceedings, 2012, , .	0.4	2

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37	Wireless control and network management of door locks. , 2015, , .		2
38	Design Hints for Efficient Robotic Vision - Lessons Learned from a Robotic Platform. Lecture Notes in Computational Vision and Biomechanics, 2018, , 515-524.	0.5	2
39	Fatigue and microgap behaviour of a three-unit implant-fixed dental prosthesis combining conventional and dynamic abutments. Journal of Medical Engineering and Technology, 2018, 42, 397-405.	1.4	2
40	Grain Refinement of Inconel 718 Superalloyâ€"The Effect of Rotating Magnetic Field. Materials, 2022, 15, 2038.	2.9	2
41	Advanced engineering tools for design and fabrication of a custom nasal prosthesis. , 2012, , .		1
42	CBIR for a wine anti-counterfeiting system using imagery from cork stoppers. , 2018, , .		1
43	Comparison of the machinability of the 316L and 18Ni300 additively manufactured steels based on turning tests. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 2207-2226.	1.1	1
44	Automation of Property Acquisition of Single Track Depositions Manufactured through Direct Energy Deposition. Applied Sciences (Switzerland), 2022, 12, 2755.	2.5	1
45	Custom hip prostheses by integrating CAD and casting technology. , 2012, , .		0
46	Numerical Modeling of Electromagnetic Tube Expansion and Formability Assessment. Key Engineering Materials, 0, 549, 429-435.	0.4	0
47	Comprehensive methodology for custom-design and manufacture of soft-tissue prosthesis: Orbital case-study. , 2017, , .		0
48	Sedimentation in the A356-Al2O3 Stirred Cast. , 0, , .		0
49	Damage Evolution Simulations via a Coupled Crystal Plasticity and Cohesive Zone Model for Additively Manufactured Austenitic SS 316L DED Components. Metals, 2022, 12, 1096.	2.3	0