Amaia Calleja

List of Publications by Year in descending order

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47	1,269	361413 20	361022 35
papers	citations	h-index	g-index

49	49	49	1232
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sustainability analysis of lubricant oils for minimum quantity lubrication based on their tribo-rheological performance. Journal of Cleaner Production, 2017, 164, 1419-1429.	9.3	111
2	Highly accurate 5-axis flank CNC machining with conical tools. International Journal of Advanced Manufacturing Technology, 2018, 97, 1605-1615.	3.0	89
3	Improvement of strategies and parameters for multi-axis laser cladding operations. Optics and Lasers in Engineering, 2014, 56, 113-120.	3.8	81
4	Analysis of the regimes in the scanner-based laser hardening process. Optics and Lasers in Engineering, 2017, 90, 72-80.	3.8	72
5	Feed rate calculation algorithm for the homogeneous material deposition of blisk blades by 5-axis laser cladding. International Journal of Advanced Manufacturing Technology, 2014, 74, 1219-1228.	3.0	68
6	Case Study to Illustrate the Potential of Conformal Cooling Channels for Hot Stamping Dies Manufactured Using Hybrid Process of Laser Metal Deposition (LMD) and Milling. Metals, 2018, 8, 102.	2.3	66
7	Super Abrasive Machining of Integral Rotary Components Using Grinding Flank Tools. Metals, 2018, 8, 24.	2.3	64
8	Drilling of CFRP-Ti6Al4V stacks using CO2-cryogenic cooling. Journal of Manufacturing Processes, 2021, 64, 58-66.	5.9	55
9	Propagation of assembly errors in multitasking machines by the homogenous matrix method. International Journal of Advanced Manufacturing Technology, 2013, 68, 149-164.	3.0	54
10	Joining metrics enhancement when combining FSW and ball-burnishing in a 2050 aluminium alloy. Surface and Coatings Technology, 2019, 367, 327-335.	4.8	54
11	Internal cryolubrication approach for Inconel 718 milling. Procedia Manufacturing, 2017, 13, 89-93.	1.9	52
12	InconelÂ®718 superalloy machinability evaluation after laser cladding additive manufacturing process. International Journal of Advanced Manufacturing Technology, 2018, 97, 2873-2885.	3.0	44
13	Five-Axis Milling of Large Spiral Bevel Gears: Toolpath Definition, Finishing, and Shape Errors. Metals, 2018, 8, 353.	2.3	39
14	5-axis double-flank CNC machining of spiral bevel gears via custom-shaped milling tools â€" Part I: Modeling and simulation. Precision Engineering, 2020, 62, 204-212.	3.4	39
15	Burnishing of FSW Aluminum Alâ€"Cuâ€"Li Components. Metals, 2019, 9, 260.	2.3	37
16	A New Approach in the Design of Microstructured Ultralight Components to Achieve Maximum Functional Performance. Materials, 2021, 14, 1588.	2.9	30
17	Manufacturing Processes of Integral Blade Rotors for Turbomachinery, Processes and New Approaches. Applied Sciences (Switzerland), 2020, 10, 3063.	2.5	27
18	Process performance and life cycle assessment of friction drilling on dual-phase steel. Journal of Cleaner Production, 2019, 213, 1147-1156.	9.3	26

#	Article	IF	Citations
19	Optimal Parameters for 5-axis Laser Cladding. Procedia Engineering, 2013, 63, 45-52.	1.2	25
20	Maximal reduction of steps for iron casting one-of-a-kind parts. Journal of Cleaner Production, 2012, 24, 48-55.	9.3	23
21	Spiral Bevel Gears Face Roughness Prediction Produced by CNC End Milling Centers. Materials, 2018, 11, 1301.	2.9	21
22	Comparison of Flank Super Abrasive Machining vs. Flank Milling on InconelÂ® 718 Surfaces. Materials, 2018, 11, 1638.	2.9	20
23	Flank-Milling of Integral Blade Rotors Made in Ti6Al4V Using Cryo CO2 and Minimum Quantity Lubrication. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	2.2	20
24	5-axis double-flank CNC machining of spiral bevel gears via custom-shaped toolsâ€"Part II: physical validations and experiments. International Journal of Advanced Manufacturing Technology, 2022, 119, 1647-1658.	3.0	17
25	Reliable Manufacturing Process in Turbine Blisks and Compressors. Procedia Engineering, 2013, 63, 60-66.	1.2	16
26	Turn-milling of blades in turning centres and multitasking machines controlling tool tilt angle. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1324-1336.	2.4	16
27	Flank milling model for tool path programming of turbine blisks and compressors. International Journal of Production Research, 2015, 53, 3354-3369.	7.5	15
28	Hole Making by Electrical Discharge Machining (EDM) of Î³-TiAl Intermetallic Alloys. Metals, 2018, 8, 543.	2.3	14
29	Drilling Process in Î³-TiAl Intermetallic Alloys. Materials, 2018, 11, 2379.	2.9	12
30	Manufacturing of human knee by cryogenic machining: Walking towards cleaner processes. Procedia Manufacturing, 2019, 41, 257-263.	1.9	12
31	Optimised methodology for aircraft engine IBRs five-axis machining process. International Journal of Mechatronics and Manufacturing Systems, 2016, 9, 385.	0.1	10
32	A reliable clean process for five-axis milling of knee prostheses. International Journal of Advanced Manufacturing Technology, 2021, 115, 1605.	3.0	7
33	Blisk blades manufacturing technologies analysis. Procedia Manufacturing, 2019, 41, 714-722.	1.9	6
34	The Gender Perspective of Professional Competencies in Industrial Engineering Studies. Sustainability, 2020, 12, 2945.	3.2	6
35	MÃQUINAS MULTITAREA: EVOLUCIÃ“N, RECURSOS, PROCESOS Y PROGRAMACIÃ“N. Dyna (Spain), 2017, 92, 637-642.	0.2	6
36	CAM development for additive manufacturing in turbo-machinery components. Procedia Manufacturing, 2017, 13, 802-809.	1.9	4

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37	Abrasive tool behavior comparing lubri-cooling techniques for Super Abrasive Machining full-slotting in InconelÂ®718. Procedia Manufacturing, 2019, 41, 642-649.	1.9	4
38	FREE-FORM TOOLS DESIGN AND FABRICATION FOR FLANK SUPER ABRASIVE MACHINING (FSAM) NON DEVELOPABLE SURFACES. MM Science Journal, 2019, 2019, 3093-3098.	0.4	2
39	Machining-induced characteristics of microstructure-supported LPBF-IN718 curved thin walls. Procedia CIRP, 2022, 108, 176-181.	1.9	2
40	Rapid Reproduction of Unique Parts by Sand Block Milling. Advanced Materials Research, 0, 498, 207-212.	0.3	1
41	A New Approach for the Production of Blades by Hybrid Processes. , 2013, , 205-229.		1
42	Optimised methodology for aircraft engine IBRs five-axis machining process. International Journal of Mechatronics and Manufacturing Systems, 2016, 9, 385.	0.1	1
43	Mechanistic Model for High Speed Turning of Austempered Ductile Irons. Advanced Materials Research, 2012, 498, 163-168.	0.3	0
44	Sand moulds milling for one-of-a-kind pieces. , 2012, , .		0
45	New Trends in Higher Education for a Thinner Approach to Technological Needs of Manufacturing Companies. Materials Science Forum, 2013, 759, 129-135.	0.3	0
46	A methodology for process parameter selection in five axis laser cladding. International Journal of Mechatronics and Manufacturing Systems, 2014, 7, 82.	0.1	0
47	Geometria konplexuko pieza baten mekanizazio estrategiak CAM bidez. Ekaia (journal), 0, , .	0.0	0