

Amaia Calleja

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,269
citations

361413

20
h-index

361022

35
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all docs

49
docs citations

49
times ranked

1232
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Machining-induced characteristics of microstructure-supported LPBF-IN718 curved thin walls. Procedia CIRP, 2022, 108, 176-181.	1.9	2
3	A New Approach in the Design of Microstructured Ultralight Components to Achieve Maximum Functional Performance. Materials, 2021, 14, 1588.	2.9	30
4	Drilling of CFRP-Ti6Al4V stacks using CO2-cryogenic cooling. Journal of Manufacturing Processes, 2021, 64, 58-66.	5.9	55
5	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
6	A reliable clean process for five-axis milling of knee prostheses. International Journal of Advanced Manufacturing Technology, 2021, 115, 1605.	3.0	7
7	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
8	Manufacturing Processes of Integral Blade Rotors for Turbomachinery, Processes and New Approaches. Applied Sciences (Switzerland), 2020, 10, 3063.	2.5	27
9	The Gender Perspective of Professional Competencies in Industrial Engineering Studies. Sustainability, 2020, 12, 2945.	3.2	6
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	Burnishing of FSW Aluminum Alâ€™Cuâ€™Li Components. Metals, 2019, 9, 260.	2.3	37
12	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
13	Blisk blades manufacturing technologies analysis. Procedia Manufacturing, 2019, 41, 714-722.	1.9	6
14	Manufacturing of human knee by cryogenic machining: Walking towards cleaner processes. Procedia Manufacturing, 2019, 41, 257-263.	1.9	12
15	Process performance and life cycle assessment of friction drilling on dual-phase steel. Journal of Cleaner Production, 2019, 213, 1147-1156.	9.3	26
16	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
17	Highly accurate 5-axis flank CNC machining with conical tools. International Journal of Advanced Manufacturing Technology, 2018, 97, 1605-1615.	3.0	89
18	Drilling Process in Î³-TiAl Intermetallic Alloys. Materials, 2018, 11, 2379.	2.9	12

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19	Super Abrasive Machining of Integral Rotary Components Using Grinding Flank Tools. <i>Metals</i> , 2018, 8, 24.	2.3	64
20	Comparison of Flank Super Abrasive Machining vs. Flank Milling on Inconel® 718 Surfaces. <i>Materials</i> , 2018, 11, 1638.	2.9	20
21	Hole Making by Electrical Discharge Machining (EDM) of $\hat{1}^3$ -TiAl Intermetallic Alloys. <i>Metals</i> , 2018, 8, 543.	2.3	14
22	Inconel®718 superalloy machinability evaluation after laser cladding additive manufacturing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 2873-2885.	3.0	44
23	Spiral Bevel Gears Face Roughness Prediction Produced by CNC End Milling Centers. <i>Materials</i> , 2018, 11, 1301.	2.9	21
24	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. <i>Metals</i> , 2018, 8, 102.	2.3	66
25	Five-Axis Milling of Large Spiral Bevel Gears: Toolpath Definition, Finishing, and Shape Errors. <i>Metals</i> , 2018, 8, 353.	2.3	39
26	Internal cryolubrication approach for Inconel 718 milling. <i>Procedia Manufacturing</i> , 2017, 13, 89-93.	1.9	52
27	CAM development for additive manufacturing in turbo-machinery components. <i>Procedia Manufacturing</i> , 2017, 13, 802-809.	1.9	4
28	Sustainability analysis of lubricant oils for minimum quantity lubrication based on their tribo-rheological performance. <i>Journal of Cleaner Production</i> , 2017, 164, 1419-1429.	9.3	111
29	Analysis of the regimes in the scanner-based laser hardening process. <i>Optics and Lasers in Engineering</i> , 2017, 90, 72-80.	3.8	72
30	MÁQUINAS MULTITAREA: EVOLUCIÓN, RECURSOS, PROCESOS Y PROGRAMACIÓN. <i>Dyna (Spain)</i> , 2017, 92, 637-642.	0.2	6
31	Optimised methodology for aircraft engine IBRs five-axis machining process. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2016, 9, 385.	0.1	10
32	Optimised methodology for aircraft engine IBRs five-axis machining process. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2016, 9, 385.	0.1	1
33	Flank milling model for tool path programming of turbine blisks and compressors. <i>International Journal of Production Research</i> , 2015, 53, 3354-3369.	7.5	15
34	Turn-milling of blades in turning centres and multitasking machines controlling tool tilt angle. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 1324-1336.	2.4	16
35	Improvement of strategies and parameters for multi-axis laser cladding operations. <i>Optics and Lasers in Engineering</i> , 2014, 56, 113-120.	3.8	81
36	Feed rate calculation algorithm for the homogeneous material deposition of blisk blades by 5-axis laser cladding. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 74, 1219-1228.	3.0	68

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37	A methodology for process parameter selection in five axis laser cladding. International Journal of Mechatronics and Manufacturing Systems, 2014, 7, 82.	0.1	0
38	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
39	Optimal Parameters for 5-axis Laser Cladding. Procedia Engineering, 2013, 63, 45-52.	1.2	25
40	Reliable Manufacturing Process in Turbine Blisks and Compressors. Procedia Engineering, 2013, 63, 60-66.	1.2	16
41	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
42	A New Approach for the Production of Blades by Hybrid Processes. , 2013, , 205-229.		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	Maximal reduction of steps for iron casting one-of-a-kind parts. Journal of Cleaner Production, 2012, 24, 48-55.	9.3	23
46	Rapid Reproduction of Unique Parts by Sand Block Milling. Advanced Materials Research, 0, 498, 207-212.	0.3	1
47	Geometria konplexuko pieza baten mekanizazio estrategiak CAM bidez. Ekaia (journal), 0, , .	0.0	0