

Luis Norberto LÃ³pez de Lacalle

List of Publications by Year in descending order

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331
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5560
citing authors

#	ARTICLE	IF	CITATIONS
1	Edge finishing of large turbine casings using defined multi-edge and abrasive tools in automated cells. International Journal of Advanced Manufacturing Technology, 2023, 124, 3149-3159.	1.5	9
2	Simulation of Cryo-cooling to Improve Super Alloys Cutting Tools. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 73-82.	2.7	23
3	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.	1.5	17
4	Multi-response Optimization of Alumina Powder-Mixed WEDM Process Using Taguchi-TOPSIS Approach of Nitinol SMA. Lecture Notes in Intelligent Transportation and Infrastructure, 2022, , 359-367.	0.3	2
5	Stiffening near-net-shape functional parts of Inconel 718 LPBF considering material anisotropy and subsequent machining issues. Mechanical Systems and Signal Processing, 2022, 168, 108675.	4.4	46
6	Multi-response Optimization and Effect of Alumina Mixed with Dielectric Fluid on WEDM Process of Ti6Al4V. Lecture Notes in Intelligent Transportation and Infrastructure, 2022, , 277-287.	0.3	5
7	Using Machine-Learning techniques and Virtual Reality to design cutting tools for energy optimization in milling operations. International Journal of Computer Integrated Manufacturing, 2022, 35, 951-971.	2.9	7
8	Influences of the workpiece material and the tool-surface engagement (TSE) on surface finishing when ball-end milling. Journal of Manufacturing Processes, 2022, 75, 219-231.	2.8	10
9	Study of laser metal deposition additive manufacturing, CNC milling, and NDT ultrasonic inspection of IN718 alloy preforms. International Journal of Advanced Manufacturing Technology, 2022, 120, 2385-2406.	1.5	15
10	Tool Wear Effect on Surface Integrity in AISI 1045 Steel Dry Turning. Materials, 2022, 15, 2031.	1.3	7
11	Tool wear monitoring of high-speed broaching process with carbide tools to reduce production errors. Mechanical Systems and Signal Processing, 2022, 172, 109003.	4.4	29
12	Machining-induced characteristics of microstructure-supported LPBF-IN718 curved thin walls. Procedia CIRP, 2022, 108, 176-181.	1.0	2
13	Hybrid manufacturing of complex components: Full methodology including laser metal deposition (LMD) module development, cladding geometry estimation and case study validation. Mechanical Systems and Signal Processing, 2022, 179, 109337.	4.4	18
14	Bridging the gap between student instruction and advanced research: Educational software tool for manufacturing learning. Computer Applications in Engineering Education, 2021, 29, 274-286.	2.2	3
15	Turning of Austempered Ductile Iron with ceramic tools. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 484-493.	1.5	19
16	Surface roughness prediction with new barrel-shape mills considering runout: Modelling and validation. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108670.	2.5	23
17	Residual stress characterization for ribbed geometries using On-machine Layer Removal method. Procedia CIRP, 2021, 101, 42-45.	1.0	2
18	A new hybrid process combining machining and selective laser melting to manufacture an advanced concept of conformal cooling channels for plastic injection molds. International Journal of Advanced Manufacturing Technology, 2021, 113, 1561-1576.	1.5	33

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19	Self-Tuning Algorithm for Tuneable Clamping Table for Chatter Suppression in Blade Recontouring. Applied Sciences (Switzerland), 2021, 11, 2569.	1.3	6
20	A New Approach in the Design of Microstructured Ultralight Components to Achieve Maximum Functional Performance. Materials, 2021, 14, 1588.	1.3	30
21	Drilling of CFRP-Ti6Al4V stacks using CO2-cryogenic cooling. Journal of Manufacturing Processes, 2021, 64, 58-66.	2.8	55
22	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, .	1.3	20
23	A reliable clean process for five-axis milling of knee prostheses. International Journal of Advanced Manufacturing Technology, 2021, 115, 1605.	1.5	7
24	Parametric Optimization and Effect of Nano-Graphene Mixed Dielectric Fluid on Performance of Wire Electrical Discharge Machining Process of Ni55.8Ti Shape Memory Alloy. Materials, 2021, 14, 2533.	1.3	34
25	Roughing Milling with Ceramic Tools in Comparison with Sintered Carbide on Nickel-Based Alloys. Coatings, 2021, 11, 734.	1.2	9
26	Predicted Torque Model in Low-Frequency-Assisted Boring (LFAB) Operations. Metals, 2021, 11, 1009.	1.0	1
27	Mechanical and Chemical Characterisation of TiN and AlTiSiN Coatings on a LPBF Processed IN718 Substrate. Materials, 2021, 14, 4626.	1.3	7
28	Tool Wear Analysis during Ultrasonic Assisted Turning of Nimonic-90 under Dry and Wet Conditions. Metals, 2021, 11, 1253.	1.0	20
29	On the relationship between cutting forces and anisotropy features in the milling of LPBF Inconel 718 for near net shape parts. International Journal of Machine Tools and Manufacture, 2021, 170, 103801.	6.2	99
30	In pursuit of sustainable cutting fluid strategy for machining Ti-6Al-4V using life cycle analysis. Sustainable Materials and Technologies, 2021, 29, e00301.	1.7	20
31	Effects of laser-textured on rake face in turning PCD tools for Ti6Al4V. Journal of Materials Research and Technology, 2021, 15, 177-188.	2.6	8
32	Digital twin-based analysis of volumetric error mapping procedures. Precision Engineering, 2021, 72, 823-836.	1.8	7
33	A model-based sustainable productivity concept for the best decision-making in rough milling operations. Measurement: Journal of the International Measurement Confederation, 2021, 186, 110120.	2.5	8
34	Improving accuracy of bulk residual stress characterization in ribbed geometries through equivalent bending stiffness. Procedia CIRP, 2021, 102, 325-330.	1.0	3
35	Superfinishing robotic cell to automate belt polishing process on critical aeronautical components. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012088.	0.3	2
36	Merging complex information in high speed broaching operations in order to obtain a robust machining process. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012079.	0.3	1

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37	Comparison between milling roughing operations in full slotting manufacturing: trochoidal, plunge and conventional milling. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012003.	0.3	1
38	Turning process with ceramic inserts of ADI cast material, surface analysis. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012002.	0.3	0
39	MACHINE LEARNING IN THE FIELD OF MANUFACTURING. Dyna (Spain), 2021, 96, 600-604.	0.1	1
40	Reduction of Die Wear and Structural Defects of Railway Screw Spike Heads Estimated by FEM. Metals, 2021, 11, 1834.	1.0	4
41	Multi-Response Optimization of Abrasive Waterjet Machining of Ti6Al4V Using Integrated Approach of Utilized Heat Transfer Search Algorithm and RSM. Materials, 2021, 14, 7746.	1.3	18
42	Investigation of Thermal-Related Effects in Hot SPIF of Ti6Al4V Alloy. International Journal of Precision Engineering and Manufacturing - Green Technology, 2020, 7, 299-317.	2.7	17
43	Cutting edge control by monitoring the tapping torque of new and resharpened tapping tools in Inconel 718. International Journal of Advanced Manufacturing Technology, 2020, 106, 3799-3808.	1.5	17
44	MoniThor: A complete monitoring tool for machining data acquisition based on FPGA programming. SoftwareX, 2020, 11, 100387.	1.2	18
45	5-axis double-flank CNC machining of spiral bevel gears via custom-shaped milling tools – Part I: Modeling and simulation. Precision Engineering, 2020, 62, 204-212.	1.8	39
46	Combination of high feed turning with cryogenic cooling on Haynes 263 and Inconel 718 superalloys. Journal of Manufacturing Processes, 2020, 58, 208-222.	2.8	48
47	Effect of WEDM Process Parameters on Surface Morphology of Nitinol Shape Memory Alloy. Materials, 2020, 13, 4943.	1.3	53
48	Uncharted Stable Peninsula for Multivariable Milling Tools by High-Order Homotopy Perturbation Method. Applied Sciences (Switzerland), 2020, 10, 7869.	1.3	9
49	Semi-Active Magnetorheological Damper Device for Chatter Mitigation during Milling of Thin-Floor Components. Applied Sciences (Switzerland), 2020, 10, 5313.	1.3	25
50	Patterns for International Cooperation between Innovation Clusters. Cases of CFAA and ruhrvalley. , 2020, , .		1
51	Definition of tailor made cutting tools for machining of complex surfaces based on final surface shape. , 2020, , .		0
52	Milling with ceramic inserts of austempered ductile iron (ADI): process conditions and performance. International Journal of Advanced Manufacturing Technology, 2020, 110, 899-907.	1.5	15
53	Isotropic finishing of austempered iron casting cylindrical parts by roller burnishing. International Journal of Advanced Manufacturing Technology, 2020, 110, 753-761.	1.5	49
54	Identification of Key Performance Indicators in Project-Based Organisations through the Lean Approach. Sustainability, 2020, 12, 5977.	1.6	22

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55	Analysis of the influence of the hydrostatic ball burnishing pressure in the surface hardness and roughness of medium carbon steels. IOP Conference Series: Materials Science and Engineering, 2020, 968, 012021.	0.3	2
56	Abrasive Disc Performance in Dry-Cutting of Medium-Carbon Steel. Metals, 2020, 10, 538.	1.0	5
57	Manufacturing Processes of Integral Blade Rotors for Turbomachinery, Processes and New Approaches. Applied Sciences (Switzerland), 2020, 10, 3063.	1.3	27
58	CO2 cryogenic milling of Inconel 718: cutting forces and tool wear. Journal of Materials Research and Technology, 2020, 9, 8459-8468.	2.6	100
59	Threading Performance of Different Coatings for High Speed Steel Tapping. Coatings, 2020, 10, 464.	1.2	15
60	Machining Stresses and Initial Geometry on Bulk Residual Stresses Characterization by On-Machine Layer Removal. Materials, 2020, 13, 1445.	1.3	27
61	Multiple Sensor Monitoring of CFRP Drilling to Define Cutting Parameters Sensitivity on Surface Roughness, Cylindricity and Diameter. Materials, 2020, 13, 2796.	1.3	15
62	Surface Analysis of Wire-Electrical-Discharge-Machining-Processed Shape-Memory Alloys. Materials, 2020, 13, 530.	1.3	69
63	TEST BENCH FOR CHARACTERIZATION OF HYDROSTATIC BEARINGS. Dyna (Spain), 2020, 95, 265-269.	0.1	0
64	Evaluation on advantages of low frequency assisted drilling (LFAD) aluminium alloy Al7075. International Journal of Mechatronics and Manufacturing Systems, 2020, 13, 230.	0.1	4
65	New Processes and Machine Tools for Advanced Metal Alloys. Metals, 2020, 10, 225.	1.0	0
66	Influence of cutting edge radius on tool life in milling inconel 718. AIP Conference Proceedings, 2019, , .	0.3	6
67	Actively lubricated hybrid journal bearings based on magnetic fluids for high-precision spindles of machine tools. Journal of Intelligent Material Systems and Structures, 2019, 30, 2257-2271.	1.4	38
68	Analysis of Laser Tracker-Based Volumetric Error Mapping Strategies for Large Machine Tools. Metals, 2019, 9, 757.	1.0	9
69	Failure-Analysis Based Redesign of Furnace Conveyor System Components: A Case Study. Metals, 2019, 9, 816.	1.0	13
70	A Methodology to Evaluate the Reliability Impact of the Replacement of Welded Components by Additive Manufacturing Spare Parts. Metals, 2019, 9, 932.	1.0	38
71	Surface integrity and fatigue of non-conventional machined Alloy 718. Journal of Manufacturing Processes, 2019, 48, 44-50.	2.8	59
72	TRLs 5â€™7 Advanced Manufacturing Centres, Practical Model to Boost Technology Transfer in Manufacturing. Sustainability, 2019, 11, 4890.	1.6	20

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73	On-machine Characterization of Bulk Residual Stresses on Machining Blanks. Procedia CIRP, 2019, 82, 406-410.	1.0	11
74	Accuracy and Surface Quality Improvements in the Manufacturing of Ti-6Al-4V Parts Using Hot Single Point Incremental Forming. Metals, 2019, 9, 697.	1.0	17
75	Thin-Wall Machining of Light Alloys: A Review of Models and Industrial Approaches. Materials, 2019, 12, 2012.	1.3	61
76	Wear and MnS Layer Adhesion in Uncoated Cutting Tools When Dry and Wet Turning Free-Cutting Steels. Metals, 2019, 9, 556.	1.0	15
77	Multi-Response Optimization of WEDM Process Parameters for Machining of Superelastic Nitinol Shape-Memory Alloy Using a Heat-Transfer Search Algorithm. Materials, 2019, 12, 1277.	1.3	79
78	Sensitivity Analysis of Tool Wear in Drilling of Titanium Aluminides. Metals, 2019, 9, 297.	1.0	12
79	Joining metrics enhancement when combining FSW and ball-burnishing in a 2050 aluminium alloy. Surface and Coatings Technology, 2019, 367, 327-335.	2.2	54
80	Inspection scheduling based on reliability updating of gas turbine welded structures. Advances in Mechanical Engineering, 2019, 11, 168781401881928.	0.8	31
81	On-Line Monitoring of Blind Fastener Installation Process. Materials, 2019, 12, 1157.	1.3	2
82	A Quick Cycle Time Sensitivity Analysis of Boron Steel Hot Stamping. Metals, 2019, 9, 235.	1.0	15
83	Burnishing of FSW Aluminum Alâ€“Cuâ€“Li Components. Metals, 2019, 9, 260.	1.0	37
84	Comparison of model free control strategies for chatter suppression by an inertial actuator. International Journal of Mechatronics and Manufacturing Systems, 2019, 12, 164.	0.1	1
85	Abrasive tool behavior comparing lubri-cooling techniques for Super Abrasive Machining full-slotting in Inconel®718. Procedia Manufacturing, 2019, 41, 642-649.	1.9	4
86	Blisk blades manufacturing technologies analysis. Procedia Manufacturing, 2019, 41, 714-722.	1.9	6
87	Low frequency vibration assisted drilling of PC1000 polycarbonate. Procedia Manufacturing, 2019, 41, 407-414.	1.9	5
88	Manufacturing of human knee by cryogenic machining: Walking towards cleaner processes. Procedia Manufacturing, 2019, 41, 257-263.	1.9	12
89	Special Issue on New Industry 4.0 Advances in Industrial IoT and Visual Computing for Manufacturing Processes. Applied Sciences (Switzerland), 2019, 9, 4323.	1.3	6
90	Prediction Methods and Experimental Techniques for Chatter Avoidance in Turning Systems: A Review. Applied Sciences (Switzerland), 2019, 9, 4718.	1.3	29

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91	Assessing the Success of R&D Projects and Innovation Projects through Project Management Life Cycle. , 2019, , .		7
92	An investigation of cutting forces and tool wear in turning of Haynes 282. Journal of Manufacturing Processes, 2019, 37, 529-540.	2.8	48
93	Process performance and life cycle assessment of friction drilling on dual-phase steel. Journal of Cleaner Production, 2019, 213, 1147-1156.	4.6	26
94	Friction capabilities of graphite-based lubricants at room and over 1400ÂK temperatures. International Journal of Advanced Manufacturing Technology, 2019, 102, 1623-1633.	1.5	14
95	TRAINING AND EDUCACIONAL OPORTUNITIES AT THE AERONAUTICS ADVANCED MANUFACTURING CENTER CFAA UPV/EHU. , 2019, , .		0
96	INCREASE OF ENVIRONMENTAL SENSITIVITY IN MANUFACTURING ENVIRONMENTS THROUGH TECHNOLOGICAL IMPROVEMENTS: ELIMINATION OF CUTTING FLUIDS IN EDUCATIONAL LABORATORIES. , 2019, , .		0
97	FREE-FORM TOOLS DESIGN AND FABRICATION FOR FLANK SUPER ABRASIVE MACHINING (FSAM) NON DEVELOPABLE SURFACES. MM Science Journal, 2019, 2019, 3093-3098.	0.2	2
98	THE ADVANCE MANUFACTURING RESEARCH CENTER ON AERONAUTICS: A CASE STUDY OF THE UNIVERSITY & INDUSTRY COOPERATION. , 2019, , .		0
99	Stability charts with large curve-flute end-mills for thin-walled workpieces. Machining Science and Technology, 2018, 22, 585-603.	1.4	12
100	Modelling of surface roughness in inclined milling operations with circle-segment end mills. Simulation Modelling Practice and Theory, 2018, 84, 161-176.	2.2	56
101	Seals Based on Magnetic Fluids for High Precision Spindles of Machine Tools. International Journal of Precision Engineering and Manufacturing, 2018, 19, 495-503.	1.1	46
102	Highly accurate 5-axis flank CNC machining with conical tools. International Journal of Advanced Manufacturing Technology, 2018, 97, 1605-1615.	1.5	89
103	Combination of friction drilling and form tapping processes on dissimilar materials for making nutless joints. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1007-1020.	1.5	73
104	Combination of simulated annealing and pseudo spectral methods for the optimum removal rate in turning operations of nickel-based alloys. Advances in Engineering Software, 2018, 115, 391-397.	1.8	12
105	Flexible Abrasive Tools for the Deburring and Finishing of Holes in Superalloys. Journal of Manufacturing and Materials Processing, 2018, 2, 82.	1.0	8
106	Drilling Process in Î³-TiAl Intermetallic Alloys. Materials, 2018, 11, 2379.	1.3	12
107	Super Abrasive Machining of Integral Rotary Components Using Grinding Flank Tools. Metals, 2018, 8, 24.	1.0	64
108	Improving Stability Prediction in Peripheral Milling of Al7075T6. Applied Sciences (Switzerland), 2018, 8, 1316.	1.3	22

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109	Comparison of Flank Super Abrasive Machining vs. Flank Milling on Inconel® 718 Surfaces. <i>Materials</i> , 2018, 11, 1638.	1.3	20
110	Hole Making by Electrical Discharge Machining (EDM) of \hat{f}^3 -TiAl Intermetallic Alloys. <i>Metals</i> , 2018, 8, 543.	1.0	14
111	A Consistent Procedure Using Response Surface Methodology to Identify Stiffness Properties of Connections in Machine Tools. <i>Materials</i> , 2018, 11, 1220.	1.3	18
112	Functional Layers of Aluminium Alloy on Steel Made by Alternative Friction Processes, for Elements of Metal Structures. <i>Advanced Materials Research</i> , 2018, 1146, 106-114.	0.3	4
113	Spiral Bevel Gears Face Roughness Prediction Produced by CNC End Milling Centers. <i>Materials</i> , 2018, 11, 1301.	1.3	21
114	On the Cutting Performance of Segmented Diamond Blades when Dry-Cutting Concrete. <i>Materials</i> , 2018, 11, 264.	1.3	21
115	Short-Cut Method to Assess a Gross Available Energy in a Medium-Load Screw Friction Press. <i>Metals</i> , 2018, 8, 173.	1.0	10
116	Five-Axis Milling of Large Spiral Bevel Gears: Toolpath Definition, Finishing, and Shape Errors. <i>Metals</i> , 2018, 8, 353.	1.0	39
117	Smart optimization of a friction-drilling process based on boosting ensembles. <i>Journal of Manufacturing Systems</i> , 2018, 48, 108-121.	7.6	70
118	Feature extraction-based prediction of tool wear of Inconel 718 in face turning. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2018, 60, 443-450.	0.3	9
119	MACHINES, PROCESSES, PEOPLE AND DATA, THE KEYS TO THE 4.0 REVOLUTION. <i>Dyna (Spain)</i> , 2018, 93, 576-577.	0.1	4
120	TOWARDS A 5G COMPLIANT AND FLEXIBLE CONNECTED MANUFACTURING FACILITY. <i>Dyna (Spain)</i> , 2018, 93, 656-662.	0.1	10
121	A RELIABLE MACHINING PROCESS BY MEANS OF INTENSIVE USE OF MODELLING AND PROCESS MONITORING: APPROACH 2025. <i>Dyna (Spain)</i> , 2018, 93, 689-696.	0.1	6
122	THE ADVANCED AERONAUTICAL MANUFACTURING CENTRE, FROM PROJECT TO REALITY. <i>Dyna (Spain)</i> , 2018, 93, 242-245.	0.1	0
123	RESEARCH AND TEACHING ACTIVE METHODOLOGIES INTERACTION IN PRACTICAL LESSONS IN ENGINEERING MANUFACTURING TECHNOLOGIES. , 2018, , .		0
124	IMPROVEMENT OF THE SURFACE QUALITY OF INCREMENTALLY FORMED PARTS BY MEANS OF HYDROSTATIC BALL BURNISHING. <i>Dyna (Spain)</i> , 2018, 93, 650-655.	0.1	1
125	Biomachining: metal etching <i>via</i> microorganisms. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 323-332.	5.1	30
126	PVD coatings for thread tapping of austempered ductile iron. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2663-2672.	1.5	29

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127	Nozzle design for combined use of MQL and cryogenic gas in machining. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 87-95.	2.7	97
128	Tool wear on nickel alloys with different coolant pressures: Comparison of Alloy 718 and Waspaloy. Journal of Manufacturing Processes, 2017, 26, 44-56.	2.8	155
129	Numerical simulation of milling forces with barrel-shaped tools considering runout and tool inclination angles. Applied Mathematical Modelling, 2017, 47, 619-636.	2.2	35
130	Stability contour maps with barrel cutters considering the tool orientation. International Journal of Advanced Manufacturing Technology, 2017, 89, 2491-2501.	1.5	24
131	Internal cryolubrication approach for Inconel 718 milling. Procedia Manufacturing, 2017, 13, 89-93.	1.9	52
132	Sustainability analysis of lubricant oils for minimum quantity lubrication based on their tribo-rheological performance. Journal of Cleaner Production, 2017, 164, 1419-1429.	4.6	111
133	Analysis of the regimes in the scanner-based laser hardening process. Optics and Lasers in Engineering, 2017, 90, 72-80.	2.0	72
134	Effects of high-pressure cooling on the wear patterns on turning inserts used on alloy IN718. Materials and Manufacturing Processes, 2017, 32, 678-686.	2.7	72
135	Biomachining: Preservation of <i>Acidithiobacillus ferrooxidans</i> and treatment of the liquid residue. Engineering in Life Sciences, 2017, 17, 382-391.	2.0	7
136	Solid subtraction model for the surface topography prediction in flank milling of thin-walled integral blade rotors (IBRs). International Journal of Advanced Manufacturing Technology, 2017, 90, 741-752.	1.5	38
137	Aeronautics Advanced Manufacturing Center, the Bet to Surpass the Valley of Death between University and Company. Materials Science Forum, 2017, 903, 56-62.	0.3	0
138	A Reliable Turning Process by the Early Use of a Deep Simulation Model at Several Manufacturing Stages. Machines, 2017, 5, 15.	1.2	21
139	Wear-dependent specific coefficients in a mechanistic model for turning of nickel-based superalloy with ceramic tools. Open Engineering, 2017, 7, 175-184.	0.7	7
140	TALADRADO DE MATERIALES COMPUESTOS: PROBLEMAS, PRÁCTICAS RECOMENDADAS Y TÉCNICAS AVANZADAS. Dyna (Spain), 2017, 92, 188-193.	0.1	4
141	MÁQUINAS MULTITAREA: EVOLUCIÓN, RECURSOS, PROCESOS Y PROGRAMACIÓN. Dyna (Spain), 2017, 92, 637-642.	0.1	6
142	Optimised methodology for aircraft engine IBRs five-axis machining process. International Journal of Mechatronics and Manufacturing Systems, 2016, 9, 385.	0.1	10
143	A cryo lubri-coolant approach for finish milling of aeronautical hard-to-cut materials. International Journal of Mechatronics and Manufacturing Systems, 2016, 9, 370.	0.1	7
144	Training and learning of specialized engineers by means of a new advanced software. Computer Applications in Engineering Education, 2016, 24, 241-254.	2.2	3

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145	Effects of Ultrasonics-Assisted Face Milling on Surface Integrity and Fatigue Life of Ni-Alloy 718. Journal of Materials Engineering and Performance, 2016, 25, 5076-5086.	1.2	100
146	Cryogenic and minimum quantity lubrication for an eco-efficiency turning of AISI 304. Journal of Cleaner Production, 2016, 139, 440-449.	4.6	238
147	Alternatives for Specimen Manufacturing in Tensile Testing of Steel Plates. Experimental Techniques, 2016, 40, 1555-1565.	0.9	76
148	Spindle speed variation technique in turning operations: Modeling and real implementation. Journal of Sound and Vibration, 2016, 383, 384-396.	2.1	48
149	Data-mining modeling for the prediction of wear on forming-taps in the threading of steel components. Journal of Computational Design and Engineering, 2016, 3, 337-348.	1.5	23
150	New advances in copper biomachining by iron-oxidizing bacteria. Corrosion Science, 2016, 112, 385-392.	3.0	26
151	Enhanced Performance of Nanostructured Coatings for Drilling by Droplet Elimination. Materials and Manufacturing Processes, 2016, 31, 593-602.	2.7	94
152	Using artificial neural networks for the prediction of dimensional error on inclined surfaces manufactured by ball-end milling. International Journal of Advanced Manufacturing Technology, 2016, 83, 847-859.	1.5	84
153	Improved predictions of the stability lobes for milling cutting operations of thin-wall components by considering ultra-miniature accelerometer mass effects. International Journal of Advanced Manufacturing Technology, 2016, 86, 2139-2146.	1.5	23
154	Detecting the key geometrical features and grades of carbide inserts for the turning of nickel-based alloys concerning surface integrity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 3725-3742.	1.1	81
155	Large Spiral Bevel Gears on Universal 5-axis Milling Machines: A Complete Process. Procedia Engineering, 2015, 132, 397-404.	1.2	24
156	A Mechanistic Cutting Force Model for New Barrel End Mills. Procedia Engineering, 2015, 132, 553-560.	1.2	8
157	Cryogenic Hard Turning of ASP23 Steel Using Carbon Dioxide. Procedia Engineering, 2015, 132, 486-491.	1.2	28
158	Approximate Solutions of Delay Differential Equations with Constant and Variable Coefficients by the Enhanced Multistage Homotopy Perturbation Method. Abstract and Applied Analysis, 2015, 2015, 1-12.	0.3	14
159	Wear of Form Taps in Threading of Steel Cold Forged Parts. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	1.3	32
160	The Use of Hybrid CO2+MQL in Machining Operations. Procedia Engineering, 2015, 132, 492-499.	1.2	81
161	Flank milling model for tool path programming of turbine blisks and compressors. International Journal of Production Research, 2015, 53, 3354-3369.	4.9	15
162	Preventing chatter vibrations in heavy-duty turning operations in large horizontal lathes. Journal of Sound and Vibration, 2015, 340, 317-330.	2.1	74

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163	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.	1.5	16
164	On the cutting of wood for joinery applications. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 940-952.	1.5	12
165	Method for measuring thermal distortion in large machine tools by means of laser multilateration. International Journal of Advanced Manufacturing Technology, 2015, 80, 523-534.	1.5	19
166	Stability and vibrational behaviour in turning processes with low rotational speeds. International Journal of Advanced Manufacturing Technology, 2015, 80, 871-885.	1.5	24
167	Topography Prediction on Grinding of Emerging Aeronautical TiAl Intermetallic Alloys. Materials Science Forum, 2014, 797, 84-89.	0.3	0
168	Elimination of surface spiral pattern on brake discs. Journal of Zhejiang University: Science A, 2014, 15, 53-60.	1.3	16
169	On the Fatigue Strength of Ball Burnished Mechanical Elements. Mechanisms and Machine Science, 2014, , 365-373.	0.3	4
170	Improvement of strategies and parameters for multi-axis laser cladding operations. Optics and Lasers in Engineering, 2014, 56, 113-120.	2.0	81
171	Determination of the stability lobes in milling operations based on homotopy and simulated annealing techniques. Mechatronics, 2014, 24, 177-185.	2.0	39
172	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.	1.5	68
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