

Jaykumar Vora

List of Publications by Year in descending order

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320
papers

11,713
citations

19636

61
h-index

49868

87
g-index

325
all docs

325
docs citations

325
times ranked

6151
citing authors

#	ARTICLE	IF	CITATIONS
1	Valoraci3n de la discapacidad f3sica: el indice de Barthel. Revista Espanola De Salud Publica, 1997, 71, 127-137.	0.3	267
2	Cryogenic and minimum quantity lubrication for an eco-efficiency turning of AISI 304. Journal of Cleaner Production, 2016, 139, 440-449.	4.6	238
3	Stability limits of milling considering the flexibility of the workpiece and the machine. International Journal of Machine Tools and Manufacture, 2005, 45, 1669-1680.	6.2	226
4	Laser polishing of parts built up by selective laser sintering. International Journal of Machine Tools and Manufacture, 2007, 47, 2040-2050.	6.2	224
5	Surface improvement of shafts by the deep ball-burnishing technique. Surface and Coatings Technology, 2012, 206, 2817-2824.	2.2	192
6	Advanced cutting conditions for the milling of aeronautical alloys. Journal of Materials Processing Technology, 2000, 100, 1-11.	3.1	187
7	Analysis of ultrasonic-assisted drilling of Ti6Al4V. International Journal of Machine Tools and Manufacture, 2009, 49, 500-508.	6.2	184
8	Cutting force estimation in sculptured surface milling. International Journal of Machine Tools and Manufacture, 2004, 44, 1511-1526.	6.2	155
9	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
10	Domestic Terrorism: The Hidden Side of Political Violence. Annual Review of Political Science, 2009, 12, 31-49.	3.5	154
11	Toolpath selection based on the minimum deflection cutting forces in the programming of complex surfaces milling. International Journal of Machine Tools and Manufacture, 2007, 47, 388-400.	6.2	133
12	Influence of low-plasticity ball burnishing on the high-cycle fatigue strength of medium carbon AISI 1045 steel. International Journal of Fatigue, 2013, 55, 230-244.	2.8	130
13	Laser polishing of tool steel with CO2 laser and high-power diode laser. International Journal of Machine Tools and Manufacture, 2010, 50, 115-125.	6.2	127
14	Numerical simulation and experimental validation of powder flux distribution in coaxial laser cladding. Journal of Materials Processing Technology, 2010, 210, 2125-2134.	3.1	127
15	An experimental investigation of the effect of coatings and cutting parameters on the dry drilling performance of aluminium alloys. International Journal of Advanced Manufacturing Technology, 2006, 28, 1-11.	1.5	119
16	Chatter avoidance in the milling of thin floors with bull-nose end mills: Model and stability diagrams. International Journal of Machine Tools and Manufacture, 2011, 51, 43-53.	6.2	116
17	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
18	Modelling of energy attenuation due to powder flow-laser beam interaction during laser cladding process. Journal of Materials Processing Technology, 2012, 212, 516-522.	3.1	106

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19	Evaluation of the stiffness chain on the deflection of end-mills under cutting forces. International Journal of Machine Tools and Manufacture, 2005, 45, 727-739.	6.2	105
20	Model for surface topography prediction in peripheral milling considering tool vibration. CIRP Annals - Manufacturing Technology, 2009, 58, 93-96.	1.7	105
21	Plasma Assisted Milling of Heat-Resistant Superalloys. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2004, 126, 274-285.	1.3	100
22	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
23	CO2 cryogenic milling of Inconel 718: cutting forces and tool wear. Journal of Materials Research and Technology, 2020, 9, 8459-8468.	2.6	100
24	The milling of airframe components with low rigidity: A general approach to avoid static and dynamic problems. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2005, 219, 789-801.	1.5	98
25	Effect of process parameter on the kerf geometry in abrasive water jet milling. International Journal of Advanced Manufacturing Technology, 2010, 51, 467-480.	1.5	98
26	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
27	Using High Pressure Coolant in the Drilling and Turning of Low Machinability Alloys. International Journal of Advanced Manufacturing Technology, 2000, 16, 85-91.	1.5	95
28	Enhanced Performance of Nanostructured Coatings for Drilling by Droplet Elimination. Materials and Manufacturing Processes, 2016, 31, 593-602.	2.7	94
29	Design and Test of a Multitooth Tool for CFRP Milling. Journal of Composite Materials, 2009, 43, 3275-3290.	1.2	91
30	Highly accurate 5-axis flank CNC machining with conical tools. International Journal of Advanced Manufacturing Technology, 2018, 97, 1605-1615.	1.5	89
31	Quality improvement of ball-end milled sculptured surfaces by ball burnishing. International Journal of Machine Tools and Manufacture, 2005, 45, 1659-1668.	6.2	88
32	On the influence of cutting speed limitation on the accuracy of wire-EDM corner-cutting. Journal of Materials Processing Technology, 2007, 182, 574-579.	3.1	86
33	An integrated process-machine approach for designing productive and lightweight milling machines. International Journal of Machine Tools and Manufacture, 2011, 51, 591-604.	6.2	85
34	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
35	Five-Axis Machining and Burnishing of Complex Parts for the Improvement of Surface Roughness. Materials and Manufacturing Processes, 2011, 26, 997-1003.	2.7	81
36	Improvement of strategies and parameters for multi-axis laser cladding operations. Optics and Lasers in Engineering, 2014, 56, 113-120.	2.0	81

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37	The Use of Hybrid CO ₂ +MQL in Machining Operations. <i>Procedia Engineering</i> , 2015, 132, 492-499.	1.2	81
38	Detecting the key geometrical features and grades of carbide inserts for the turning of nickel-based alloys concerning surface integrity. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 3725-3742.	1.1	81
39	The Denavit and Hartenberg approach applied to evaluate the consequences in the tool tip position of geometrical errors in five-axis milling centres. <i>International Journal of Advanced Manufacturing Technology</i> , 2008, 37, 122-139.	1.5	80
40	Effects of tool deflection in the high-speed milling of inclined surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2004, 24, 621-631.	1.5	79
41	Model development for the prediction of surface topography generated by ball-end mills taking into account the tool parallel axis offset. <i>Experimental validation. CIRP Annals - Manufacturing Technology</i> , 2008, 57, 101-104.	1.7	79
42	Multi-Response Optimization of WEDM Process Parameters for Machining of Superelastic Nitinol Shape-Memory Alloy Using a Heat-Transfer Search Algorithm. <i>Materials</i> , 2019, 12, 1277.	1.3	79
43	Effect of very high cutting speeds on shearing, cutting forces and roughness in dry turning of austenitic stainless steels. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 57, 61-71.	1.5	78
44	Error budget and stiffness chain assessment in a micromilling machine equipped with tools less than 0.3mm in diameter. <i>Precision Engineering</i> , 2007, 31, 1-12.	1.8	77
45	CALCULATION OF THE SPECIFIC CUTTING COEFFICIENTS AND GEOMETRICAL ASPECTS IN SCULPTURED SURFACE MACHINING. <i>Machining Science and Technology</i> , 2005, 9, 411-436.	1.4	76
46	Characterization and stability analysis of a multivariable milling tool by the enhanced multistage homotopy perturbation method. <i>International Journal of Machine Tools and Manufacture</i> , 2012, 57, 27-33.	6.2	76
47	Alternatives for Specimen Manufacturing in Tensile Testing of Steel Plates. <i>Experimental Techniques</i> , 2016, 40, 1555-1565.	0.9	76
48	The effect of ball burnishing on heat-treated steel and Inconel 718 milled surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2007, 32, 958-968.	1.5	74
49	Preventing chatter vibrations in heavy-duty turning operations in large horizontal lathes. <i>Journal of Sound and Vibration</i> , 2015, 340, 317-330.	2.1	74
50	Combination of friction drilling and form tapping processes on dissimilar materials for making nutless joints. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 1007-1020.	1.5	73
51	Analysis of the regimes in the scanner-based laser hardening process. <i>Optics and Lasers in Engineering</i> , 2017, 90, 72-80.	2.0	72
52	Effects of high-pressure cooling on the wear patterns on turning inserts used on alloy IN718. <i>Materials and Manufacturing Processes</i> , 2017, 32, 678-686.	2.7	72
53	Smart optimization of a friction-drilling process based on boosting ensembles. <i>Journal of Manufacturing Systems</i> , 2018, 48, 108-121.	7.6	70
54	Surface Analysis of Wire-Electrical-Discharge-Machining-Processed Shape-Memory Alloys. <i>Materials</i> , 2020, 13, 530.	1.3	69

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55	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
56	Selection of cutting conditions for a stable milling of flexible parts with bull-nose end mills. Journal of Materials Processing Technology, 2007, 191, 279-282.	3.1	67
57	Behaviour of PVD Coatings in the Turning of Austenitic Stainless Steels. Procedia Engineering, 2013, 63, 133-141.	1.2	67
58	CO2 laser cutting of advanced high strength steels (AHSS). Applied Surface Science, 2005, 242, 362-368.	3.1	66
59	An automatic spindle speed selection strategy to obtain stability in high-speed milling. International Journal of Machine Tools and Manufacture, 2009, 49, 384-394.	6.2	66
60	Prediction of specific force coefficients from a FEM cutting model. International Journal of Advanced Manufacturing Technology, 2009, 43, 348-356.	1.5	66
61	HOLE MAKING USING BALL HELICAL MILLING ON TITANIUM ALLOYS. Machining Science and Technology, 2012, 16, 173-188.	1.4	66
62	Rebels without a Territory. Journal of Conflict Resolution, 2012, 56, 580-603.	1.1	65
63	Roughness prediction on laser polished surfaces. Journal of Materials Processing Technology, 2012, 212, 1305-1313.	3.1	64
64	Super Abrasive Machining of Integral Rotary Components Using Grinding Flank Tools. Metals, 2018, 8, 24.	1.0	64
65	Stability prediction in straight turning of a flexible workpiece by collocation method. International Journal of Machine Tools and Manufacture, 2012, 54-55, 73-81.	6.2	63
66	Development of Optimum Electrodischarge Machining Technology for Advanced Ceramics. International Journal of Advanced Manufacturing Technology, 2001, 18, 897-905.	1.5	62
67	Improving the high-speed finishing of forming tools for advanced high-strength steels (AHSS). International Journal of Advanced Manufacturing Technology, 2006, 29, 49-63.	1.5	62
68	Improving the surface finish in high speed milling of stamping dies. Journal of Materials Processing Technology, 2002, 123, 292-302.	3.1	61
69	Thin-Wall Machining of Light Alloys: A Review of Models and Industrial Approaches. Materials, 2019, 12, 2012.	1.3	61
70	Behavior of austenitic stainless steels at high speed turning using specific force coefficients. International Journal of Advanced Manufacturing Technology, 2012, 62, 505-515.	1.5	60
71	Pareto optimization of WEDM process parameters for machining a NiTi shape memory alloy using a combined approach of RSM and heat transfer search algorithm. Advances in Manufacturing, 2021, 9, 64-80.	3.2	60
72	Recording of real cutting forces along the milling of complex parts. Mechatronics, 2006, 16, 21-32.	2.0	59

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73	Surface integrity and fatigue of non-conventional machined Alloy 718. <i>Journal of Manufacturing Processes</i> , 2019, 48, 44-50.	2.8	59
74	Modelling of surface roughness in inclined milling operations with circle-segment end mills. <i>Simulation Modelling Practice and Theory</i> , 2018, 84, 161-176.	2.2	56
75	Mechanistic modelling of the micro end milling operation. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2008, 222, 23-33.	1.5	55
76	Tool wear detection in dry high-speed milling based upon the analysis of machine internal signals. <i>Mechatronics</i> , 2008, 18, 627-633.	2.0	54
77	Propagation of assembly errors in multitasking machines by the homogenous matrix method. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 68, 149-164.	1.5	54
78	Joining metrics enhancement when combining FSW and ball-burnishing in a 2050 aluminium alloy. <i>Surface and Coatings Technology</i> , 2019, 367, 327-335.	2.2	54
79	Computer simulation of wire-EDM taper-cutting. <i>International Journal of Computer Integrated Manufacturing</i> , 2006, 19, 727-735.	2.9	53
80	Methodology for the design of a thermal distortion compensation for large machine tools based in state-space representation with Kalman filter. <i>International Journal of Machine Tools and Manufacture</i> , 2013, 75, 100-108.	6.2	53
81	Effect of WEDM Process Parameters on Surface Morphology of Nitinol Shape Memory Alloy. <i>Materials</i> , 2020, 13, 4943.	1.3	53
82	Ultrasonic Assisted Turning of mild steels. <i>International Journal of Materials and Product Technology</i> , 2010, 37, 60.	0.1	52
83	Milling of gamma titanium-aluminum alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 62, 83-88.	1.5	52
84	A sustainable process for material removal on pure copper by use of extremophile bacteria. <i>Journal of Cleaner Production</i> , 2014, 84, 752-760.	4.6	52
85	Internal cryolubrication approach for Inconel 718 milling. <i>Procedia Manufacturing</i> , 2017, 13, 89-93.	1.9	52
86	Process planning for reliable high-speed machining of moulds. <i>International Journal of Production Research</i> , 2002, 40, 2789-2809.	4.9	51
87	Cutting conditions and tool optimization in the high-speed milling of aluminium alloys. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2001, 215, 1257-1269.	1.5	49
88	Isotropic finishing of austempered iron casting cylindrical parts by roller burnishing. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 753-761.	1.5	49
89	Multi-response Optimization of WEDM Parameters Using an Integrated Approach of RSM-GRA Analysis for Pure Titanium. <i>Journal of the Institution of Engineers (India): Series D</i> , 2020, 101, 117-126.	0.6	49
90	Monitoring of drilling for burr detection using spindle torque. <i>International Journal of Machine Tools and Manufacture</i> , 2005, 45, 1614-1621.	6.2	48

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91	Spindle speed variation technique in turning operations: Modeling and real implementation. Journal of Sound and Vibration, 2016, 383, 384-396.	2.1	48
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	A computer-aided system for the optimization of the accuracy of the wire electro-discharge machining process. International Journal of Computer Integrated Manufacturing, 2004, 17, 413-420.	2.9	47
94	A method for thermal characterization and modeling of large gantry-type machine tools. International Journal of Advanced Manufacturing Technology, 2012, 62, 875-886.	1.5	47
95	Experimental investigation on mechanism and weld morphology of activated TIG welded bead-on-plate weldments of reduced activation ferritic/martensitic steel using oxide fluxes. Journal of Manufacturing Processes, 2015, 20, 224-233.	2.8	47
96	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
97	Experimental investigations and optimization of MWCNTs-mixed WEDM process parameters of nitinol shape memory alloy. Journal of Materials Research and Technology, 2021, 15, 2152-2169.	2.6	46
98	Simultaneous Measurement of Forces and Machine Tool Position for Diagnostic of Machining Tests. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 2329-2335.	2.4	45
99	Analysis of the tool tip radial stiffness of turn-milling centers. International Journal of Advanced Manufacturing Technology, 2012, 60, 883-891.	1.5	44
100	Experimental investigation on microstructure and mechanical properties of activated TIG welded reduced activation ferritic/martensitic steel joints. Journal of Manufacturing Processes, 2017, 25, 85-93.	2.8	41
101	Machining parameter optimization and experimental investigations of nano-graphene mixed electrical discharge machining of nitinol shape memory alloy. Journal of Materials Research and Technology, 2022, 19, 653-668.	2.6	41
102	Prediction of press/die deformation for an accurate manufacturing of drawing dies. International Journal of Advanced Manufacturing Technology, 2008, 37, 649-656.	1.5	39
103	Determination of the stability lobes in milling operations based on homotopy and simulated annealing techniques. Mechatronics, 2014, 24, 177-185.	2.0	39
104	Five-Axis Milling of Large Spiral Bevel Gears: Toolpath Definition, Finishing, and Shape Errors. Metals, 2018, 8, 353.	1.0	39
105	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
106	Tool wear prediction in face milling of stainless steel using singular generative adversarial network and LSTM deep learning models. International Journal of Advanced Manufacturing Technology, 2022, 121, 723-736.	1.5	39
107	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
108	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

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109	A Methodology to Evaluate the Reliability Impact of the Replacement of Welded Components by Additive Manufacturing Spare Parts. <i>Metals</i> , 2019, 9, 932.	1.0	38
110	Burnishing of FSW Aluminum Al-Cu-Li Components. <i>Metals</i> , 2019, 9, 260.	1.0	37
111	Regenerative vibration avoidance due to tool tangential dynamics in interrupted turning operations. <i>Journal of Sound and Vibration</i> , 2014, 333, 3996-4006.	2.1	36
112	Numerical simulation of milling forces with barrel-shaped tools considering runout and tool inclination angles. <i>Applied Mathematical Modelling</i> , 2017, 47, 619-636.	2.2	35
113	Integration of Fuzzy AHP and Fuzzy TOPSIS Methods for Wire Electric Discharge Machining of Titanium (Ti6Al4V) Alloy Using RSM. <i>Materials</i> , 2021, 14, 7408.	1.3	35
114	Effect of mechanical pre-treatments in the behaviour of nanostructured PVD-coated tools in turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 73, 1119-1132.	1.5	34
115	Parametric Optimization and Effect of Nano-Graphene Mixed Dielectric Fluid on Performance of Wire Electrical Discharge Machining Process of Ni55.8Ti Shape Memory Alloy. <i>Materials</i> , 2021, 14, 2533.	1.3	34
116	The CAM as the centre of gravity of the five-axis high speed milling of complex parts. <i>International Journal of Production Research</i> , 2005, 43, 1983-1999.	4.9	33
117	Thermal model with phase change for process parameter determination in laser surface processing. <i>Physics Procedia</i> , 2010, 5, 395-403.	1.2	33
118	Stability lobes for general turning operations with slender tools in the tangential direction. <i>International Journal of Machine Tools and Manufacture</i> , 2013, 67, 35-44.	6.2	33
119	Improved Penetration with the Use of Oxide Fluxes in Activated TIG Welding of Low Activation Ferritic/Martensitic Steel. <i>Transactions of the Indian Institute of Metals</i> , 2016, 69, 1755-1764.	0.7	33
120	Electrical discharge truing of metal-bonded CBN wheels using single-point electrode. <i>International Journal of Machine Tools and Manufacture</i> , 2008, 48, 362-370.	6.2	32
121	What We Talk About When We Talk About Terrorism. <i>Politics and Society</i> , 2011, 39, 451-472.	1.5	32
122	Wear of Form Taps in Threading of Steel Cold Forged Parts. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	1.3	32
123	Grinding of Gamma TiAl Intermetallic Alloys. <i>Procedia Engineering</i> , 2013, 63, 489-498.	1.2	31
124	Inspection scheduling based on reliability updating of gas turbine welded structures. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401881928.	0.8	31
125	Experimental Study of the Slot Overlapping and Tool Path Variation Effect in Abrasive Waterjet Milling. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2011, 133, .	1.3	30
126	Biomachining: metal etching via microorganisms. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 323-332.	5.1	30

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127	Growth of titanium dioxide nanorod over shape memory material using chemical vapor deposition for energy conversion application. <i>Materials Today: Proceedings</i> , 2020, 28, 475-479.	0.9	30
128	A Review on Applications of Nitinol Shape Memory Alloy. <i>Lecture Notes in Intelligent Transportation and Infrastructure</i> , 2021, , 123-132.	0.3	30
129	<i>Advanced Cutting Tools</i> . , 2011, , 33-86.		29
130	Killing and Voting in the Basque Country: An Exploration of the Electoral Link Between ETA and its Political Branch. <i>Terrorism and Political Violence</i> , 2013, 25, 94-112.	1.3	29
131	PVD coatings for thread tapping of austempered ductile iron. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2663-2672.	1.5	29
132	Prediction Methods and Experimental Techniques for Chatter Avoidance in Turning Systems: A Review. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4718.	1.3	29
133	Optimization of Activated Tungsten Inert Gas Welding Process Parameters Using Heat Transfer Search Algorithm: With Experimental Validation Using Case Studies. <i>Metals</i> , 2021, 11, 981.	1.0	29
134	Analysis of the electro discharge dressing (EDD) process of large-grit size cBN grinding wheels. <i>International Journal of Advanced Manufacturing Technology</i> , 2006, 29, 688-694.	1.5	28
135	Mechanistic model for drills with double point-angle edges. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 40, 447-457.	1.5	28
136	The quantity and quality of terrorism. <i>Journal of Peace Research</i> , 2011, 48, 49-58.	1.5	28
137	Cryogenic Hard Turning of ASP23 Steel Using Carbon Dioxide. <i>Procedia Engineering</i> , 2015, 132, 486-491.	1.2	28
138	Experimental Investigations and Pareto Optimization of Fiber Laser Cutting Process of Ti6Al4V. <i>Metals</i> , 2021, 11, 1461.	1.0	28
139	How Armed Groups Fight: Territorial Control and Violent Tactics. <i>Studies in Conflict and Terrorism</i> , 2015, 38, 795-813.	0.8	27
140	Manufacturing Processes of Integral Blade Rotors for Turbomachinery, Processes and New Approaches. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3063.	1.3	27
141	Machining Stresses and Initial Geometry on Bulk Residual Stresses Characterization by On-Machine Layer Removal. <i>Materials</i> , 2020, 13, 1445.	1.3	27
142	A Comparative Study to Predict Bearing Degradation Using Discrete Wavelet Transform (DWT), Tabular Generative Adversarial Networks (TGAN) and Machine Learning Models. <i>Machines</i> , 2022, 10, 176.	1.2	27
143	New advances in copper biomachining by iron-oxidizing bacteria. <i>Corrosion Science</i> , 2016, 112, 385-392.	3.0	26
144	Process performance and life cycle assessment of friction drilling on dual-phase steel. <i>Journal of Cleaner Production</i> , 2019, 213, 1147-1156.	4.6	26

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145	Experimental studies of Regulated Metal Deposition (RMD \hat{a} , c) on ASTM A387 (11) steel: study of parametric influence and welding performance optimization. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	26
146	Study of parametric influence and welding performance optimization during regulated metal deposition (RMD \hat{a} , c) using grey integrated with fuzzy taguchi approach. Journal of Manufacturing Processes, 2020, 54, 286-300.	2.8	26
147	Experimental investigations and prediction of WEDMed surface of nitinol SMA using SinGAN and \hat{A} DenseNet deep learning model. Journal of Materials Research and Technology, 2022, 18, 325-337.	2.6	26
148	Dimensional accuracy optimisation of multi-stage planetary EDM. International Journal of Machine Tools and Manufacture, 2002, 42, 1643-1648.	6.2	25
149	Cutting force integration at the CAM stage in the high-speed milling of complex surfaces. International Journal of Computer Integrated Manufacturing, 2005, 18, 586-600.	2.9	25
150	Optimal Parameters for 5-axis Laser Cladding. Procedia Engineering, 2013, 63, 45-52.	1.2	25
151	Semi-Active Magnetorheological Damper Device for Chatter Mitigation during Milling of Thin-Floor Components. Applied Sciences (Switzerland), 2020, 10, 5313.	1.3	25
152	Unravelling camphor mediated synthesis of TiO ₂ nanorods over shape memory alloy for efficient energy harvesting. Applied Surface Science, 2021, 541, 148489.	3.1	25
153	Surface Roughness Improvement Using Laser-Polishing Techniques. Materials Science Forum, 2006, 526, 217-222.	0.3	24
154	Large Spiral Bevel Gears on Universal 5-axis Milling Machines: A Complete Process. Procedia Engineering, 2015, 132, 397-404.	1.2	24
155	Stability and vibrational behaviour in turning processes with low rotational speeds. International Journal of Advanced Manufacturing Technology, 2015, 80, 871-885.	1.5	24
156	Stability contour maps with barrel cutters considering the tool orientation. International Journal of Advanced Manufacturing Technology, 2017, 89, 2491-2501.	1.5	24
157	Maximal reduction of steps for iron casting one-of-a-kind parts. Journal of Cleaner Production, 2012, 24, 48-55.	4.6	23
158	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
159	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
160	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
161	Turning of Thick Thermal Spray Coatings. Journal of Thermal Spray Technology, 2001, 10, 249-254.	1.6	22
162	Improving Stability Prediction in Peripheral Milling of Al7075T6. Applied Sciences (Switzerland), 2018, 8, 1316.	1.3	22

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163	Attaining optimized A-TIG welding parameters for carbon steels by advanced parameter-less optimization techniques: with experimental validation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	22
164	Identification of Key Performance Indicators in Project-Based Organisations through the Lean Approach. Sustainability, 2020, 12, 5977.	1.6	22
165	Use of Magnetorheological Fluids for Vibration Reduction on the Milling of Thin Floor Parts. Procedia Engineering, 2013, 63, 835-842.	1.2	21
166	Effect of Tool Rotation Speed on Friction Stir Spot Welded AA5052-H32 and AA6082-T6 Dissimilar Aluminum Alloys. Metallography, Microstructure, and Analysis, 2016, 5, 142-148.	0.5	21
167	A Reliable Turning Process by the Early Use of a Deep Simulation Model at Several Manufacturing Stages. Machines, 2017, 5, 15.	1.2	21
168	Spiral Bevel Gears Face Roughness Prediction Produced by CNC End Milling Centers. Materials, 2018, 11, 1301.	1.3	21
169	On the Cutting Performance of Segmented Diamond Blades when Dry-Cutting Concrete. Materials, 2018, 11, 264.	1.3	21
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