Suhas S Joshi

List of Publications by Year
in descending order

177 papers	5,053 citations	101543 36 h-index	118850 62 g-index
178 all docs	178 docs citations	178 times ranked	3607 citing authors

#	Article	IF	Citations
1	Modeling of surface roughness in precision machining of metal matrix composites using ANN. Journal of Materials Processing Technology, 2008, 197, 439-444.	6.3	382
2	Effect of machining parameters and cutting edge geometry on surface integrity of high-speed turned Inconel 718. International Journal of Machine Tools and Manufacture, 2008, 48, 15-28.	13.4	323
3	An investigation of cutting forces and surface damage in high-speed turning of Inconel 718. Journal of Materials Processing Technology, 2007, 192-193, 139-146.	6.3	184
4	Multi-objective optimization of surface roughness and cutting forces in high-speed turning of Inconel 718 using Taguchi grey relational analysis (TGRA). International Journal of Advanced Manufacturing Technology, 2011, 56, 47-62.	3.0	155
5	Characterization and modeling of burr formation in micro-end milling. Precision Engineering, 2011, 35, 625-637.	3.4	127
6	Modelling and simulation of effect of ultrasonic vibrations on machining of Ti6Al4V. Ultrasonics, 2014, 54, 694-705.	3.9	125
7	Experimental characterization of dry EDM performed in a pulsating magnetic field. CIRP Annals - Manufacturing Technology, 2011, 60, 239-242.	3.6	110
8	An Explanation for the Size-Effect in Machining Using Strain Gradient Plasticity. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2004, 126, 679-684.	2.2	108
9	Experimental characterization of material removal in dry electrical discharge drilling. International Journal of Machine Tools and Manufacture, 2010, 50, 431-443.	13.4	104
10	Passive blood plasma separation at the microscale: a review of design principles and microdevices. Journal of Micromechanics and Microengineering, 2015, 25, 083001.	2.6	102
11	Modeling of a Single Resistance Capacitance Pulse Discharge in Micro-Electro Discharge Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2005, 127, 759-767.	2.2	101
12	Modeling of chipâ€“tool interface friction to predict cutting forces in machining of Al/SiCp composites. International Journal of Machine Tools and Manufacture, 2009, 49, 690-700.	13.4	93
13	Surface finish and integrity of machined surfaces on Al/SiCp composites. Journal of Materials Processing Technology, 2007, 192-193, 166-174.	6.3	86
14	A finite element model to predict the ablation depth in pulsed laser ablation. Thin Solid Films, 2010, 519, 1421-1430.	1.8	83
15	Analysis of chip formation mechanism in machining of Al/SiCp metal matrix composites. Journal of Materials Processing Technology, 2009, 209, 4704-4710.	6.3	82
16	Microdevice for plasma separation from whole human blood using bio-physical and geometrical effects. Scientific Reports, 2016, 6, 26749.	3.3	82
17	An Experimental Evaluation of an Atomization-Based Cutting Fluid Application System for Micromachining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	2.2	81
18	An analytical model to predict specific shear energy in high-speed turning of Inconel 718. International Journal of Machine Tools and Manufacture, 2009, 49, 979-990.	13.4	80

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19	A model of laser ablation with temperature-dependent material properties, vaporization, phase explosion and plasma shielding. Applied Physics A: Materials Science and Processing, 2014, 116, 273-285.	2.3	74
20	Analysis of hole quality in drilling GLARE fiber metal laminates. Composite Structures, 2015, 123, 350-365.	5.8	74
21	Single-spark analysis of removal phenomenon in magnetic field assisted dry EDM. Journal of Materials Processing Technology, 2013, 213, 1048-1058.	6.3	63
22	MECHANISM OF CHIP FORMATION IN HIGH-SPEED TURNING OF INCONEL 718. Machining Science and Technology, 2011, 15, 132-152.	2.5	62
23	Molecular dynamics simulation of nanoindentation of Fe3C and Fe4C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 597, 331-341.	5.6	61
24	Critical assessment of the issues in the modeling of ablation and plasma expansion processes in the pulsed laser deposition of metals. Journal of Applied Physics, 2011, 109, .	2.5	57
25	Investigations into performance of dry EDM using slotted electrodes. International Journal of Precision Engineering and Manufacturing, 2011, 12, 957-963.	2.2	57
26	Analytical modelling of residual stresses in orthogonal machining of AISI4340 steel. Journal of Manufacturing Processes, 2013, 15, 167-179.	5.9	53
27	Analysis of micro-cracks on machined surfaces in dry electrical discharge machining. Journal of Manufacturing Processes, 2012, 14, 277-288.	5.9	51
28	AN EXPERIMENTAL ANALYSIS OF MAGNETIC ABRASIVES FINISHING OF PLANE SURFACES. Machining Science and Technology, 2006, 10, 323-340.	2.5	50
29	Anti-Biofouling Properties of Femtosecond Laser-Induced Submicron Topographies on Elastomeric Surfaces. Langmuir, 2020, 36, 5349-5358.	3.5	50
30	Analysis of chip breaking during orthogonal machining of Al/SiCp composites. Journal of Materials Processing Technology, 1999, 88, 90-96.	6.3	47
31	Ultra thin silicon wafer slicing using wire-EDM for solar cell application. Materials and Design, 2017, 124, 158-170.	7.0	45
32	Dual textured carbide tools for dry machining of titanium alloys. International Journal of Refractory Metals and Hard Materials, 2021, 94, 105403.	3.8	43
33	Micro-Structural Analysis of Chip Formation During Orthogonal Machining of Al/SiCp Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 2001, 123, 315-321.	1.4	42
34	Microstructural Characterization of Chip Segmentation Under Different Machining Environments in Orthogonal Machining of Ti6Al4V. Journal of Engineering Materials and Technology, Transactions of the ASME, 2015, 137, .	1.4	42
35	Modeling Debris Motion in Vibration Assisted Reverse Micro Electrical Discharge Machining Process (R-MEDM). Journal of Microelectromechanical Systems, 2015, 24, 661-676.	2.5	40
36	Analytical modeling of chip geometry and cutting forces in helical ball end milling of superalloy Inconel 718. CIRP Journal of Manufacturing Science and Technology, 2010, 3, 204-217.	4.5	39

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37	Recent developments in the reverse micro-electrical discharge machining in the fabrication of arrayed micro-features. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 367-384.	2.1	36
38	Multi-objective optimization for silicon wafer slicing using wire-EDM process. Materials Science in Semiconductor Processing, 2015, 39, 793-806.	4.0	36
39	CUTTING FORCES AND SURFACE ROUGHNESS IN MACHINING Al/SiCp COMPOSITES OF VARYING COMPOSITION. Machining Science and Technology, 2010, 14, 258-279.	2.5	35
40	Performance study of microfluidic devices for blood plasma separationâ€"a designerâ€™s perspective. Journal of Micromechanics and Microengineering, 2015, 25, 084004.	2.6	35
41	Analysis of accuracy of high-aspect-ratio holes generated using micro-electric discharge machining drilling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2008, 222, 1453-1464.	2.4	33
42	Wear of rotary carbide tools in machining of Al/SiCp composites. Wear, 1999, 230, 124-132.	3.1	32
43	Evolution of electrochemical finishing processes through cross innovations and modeling. International Journal of Machine Tools and Manufacture, 2013, 66, 15-36.	13.4	32
44	Modeling of temperature distribution in drilling of titanium. International Journal of Mechanical Sciences, 2017, 133, 598-610.	6.7	32
45	Modeling of cutting forces in a face-milling operation with self-propelled round insert milling cutter. International Journal of Machine Tools and Manufacture, 2005, 45, 831-839.	13.4	31
46	Modeling of Surface Roughness and the Role of Debris in Micro-EDM. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 265-273.	2.2	31
47	Modeling and Optimization of Machining Process in Discontinuously Reinforced Aluminium Matrix Composites. Machining Science and Technology, 2004, 8, 85-102.	2.5	30
48	Influence of Preheating on Chip Segmentation and Microstructure in Orthogonal Machining of Ti6Al4V. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	2.2	30
49	Modeling of spark erosion rate in microwire-EDM. International Journal of Advanced Manufacturing Technology, 2010, 48, 581-596.	3.0	29
50	Experimental characterization of the reverse micro-electrodischarge machining process for fabrication of high-aspect-ratio micro-rod arrays. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2010, 224, 777-794.	2.4	28
51	Analytical Simulation of Random Textures Generated in Electrical Discharge Texturing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2017, 139, .	2.2	27
52	Analysis of machined surface quality in a single-pass of ball-end milling on Inconel 718. Journal of Manufacturing Processes, 2012, 14, 257-268.	5.9	26
53	Analysis of fabrication of arrayed micro-rods on tungsten carbide using reverse micro-EDM. International Journal of Manufacturing Technology and Management, 2012, 26, 176.	0.1	25
54	Analysis of surface roughness and chip cross-sectional area while machining with self-propelled round inserts milling cutter. Journal of Materials Processing Technology, 2003, 132, 305-312.	6.3	24

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55	Modeling nanosecond pulsed laser ablation: A focus on temperature dependence of material properties. Manufacturing Letters, 2014, 2, 13-16.	2.2	24
56	Effect of Î² phase fraction in titanium alloys on chip segmentation in their orthogonal machining. CIRP Journal of Manufacturing Science and Technology, 2014, 7, 191-201.	4.5	24
57	Evolution of EDM process modelling and development towards modelling of the micro-EDM process. International Journal of Manufacturing Technology and Management, 2005, 7, 157.	0.1	22
58	Models for predicting temperature dependence of material properties of aluminum. Journal Physics D: Applied Physics, 2014, 47, 105306.	2.8	22
59	Influence of Î² phase fraction on deformation of grains in and around shear bands in machining of titanium alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 71-85.	5.6	22
60	FE Modeling for Single Spark in EDM Considering Plasma Flushing Efficiency. Procedia Manufacturing, 2018, 26, 617-628.	1.9	22
61	Surface Alterations to Impart Antiviral Properties to Combat COVID-19 Transmission. , 2020, 5, 343-347.		22
62	Finite element model for topography prediction of electrical discharge textured surfaces considering multi-discharge phenomenon. International Journal of Mechanical Sciences, 2020, 177, 105604.	6.7	22
63	Analysis of acoustic emission signals and surface integrity in the high-speed turning of Inconel 718. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2012, 226, 3-27.	2.4	21
64	Femtosecond laser-induced sub-micron and multi-scale topographies for durable lubricant impregnated surfaces for food packaging applications. Surface and Coatings Technology, 2020, 399, 126166.	4.8	21
65	Fabrication of microfilters using excimer laser micromachining and testing of pressure drop. Journal of Micromechanics and Microengineering, 2009, 19, 025025.	2.6	20
66	Development of a flexure-based, force-sensing microgripper for micro-object manipulation. Journal of Micromechanics and Microengineering, 2010, 20, 015001.	2.6	20
67	Utilization of Cavity Vortex To Delay the Wetting Transition in One-Dimensional Structured Microchannels. Langmuir, 2015, 31, 13373-13384.	3.5	20
68	Modeling of liquidâ€“gas meniscus for textured surfaces: effects of curvature and local slip length. Journal of Micromechanics and Microengineering, 2015, 25, 125002.	2.6	20
69	Surface topography generation and simulation in electrical discharge texturing: A review. Journal of Materials Processing Technology, 2021, 298, 117297.	6.3	20
70	Mechanics of machining of face-milling operation performed using a self-propelled round insert milling cutter. Journal of Materials Processing Technology, 2006, 171, 68-76.	6.3	19
71	Tool wear mechanisms in machining of three titanium alloys with increasing Î²-phase fraction. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 1090-1103.	2.4	19
72	Modeling of machined surface quality in high-speed ball-end milling of Inconel-718 thin cantilevers. International Journal of Advanced Manufacturing Technology, 2015, 78, 1751-1768.	3.0	19

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73	Modeling of variable friction and heat partition ratio at the chip-tool interface during orthogonal cutting of Ti-6Al-4V. Journal of Manufacturing Processes, 2020, 55, 254-267.	5.9	19
74	Experimental Investigation into the Effect of Ball End Milling Parameters on Surface Integrity of Inconel 718. Journal of Materials Engineering and Performance, 2015, 24, 986-998.	2.5	18
75	Removal of alpha case on titanium alloy surfaces using chemical milling. Machining Science and Technology, 2017, 21, 257-278.	2.5	18
76	Surface integrity investigation including grinding burns using barkhausen noise (BNA). Journal of Manufacturing Processes, 2017, 30, 226-240.	5.9	17
77	Microstructural Characterization of Thermal Damage on Silicon Wafers Sliced Using Wire-Electrical Discharge Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	2.2	17
78	Modelling time-domain vibratory deflection response of thin-walled cantilever workpieces during flank milling. Journal of Manufacturing Processes, 2018, 33, 278-290.	5.9	17
79	Surface integrity studies for straight and inclined hole in micro-drilling of thermal barrier coated Inconel 718: A turbine blade application. Precision Engineering, 2020, 66, 166-179.	3.4	17
80	Separation and Enrichment of Platelets from Whole Blood Using a PDMS-Based Passive Microdevice. Industrial & Engineering Chemistry Research, 2020, 59, 4792-4801.	3.7	17
81	Hydrodynamic drag reduction of shear-thinning liquids in superhydrophobic textured microchannels. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	17
82	Tool Life Stage Prediction in Micro-Milling From Force Signal Analysis Using Machine Learning Methods. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2021, 143, .	2.2	16
83	Analysis of heat affected zone in the micro-electric discharge machining. International Journal of Manufacturing Technology and Management, 2008, 13, 201.	0.1	15
84	RESPONSE SURFACE ANALYSIS OF SLICING OF SILICON INGOTS WITH FOCUS ON PHOTOVOLTAIC APPLICATION. Machining Science and Technology, 2012, 16, 624-652.	2.5	15
85	Experimental analysis of axial and torsional vibrations assisted tapping of titanium alloy. Journal of Manufacturing Processes, 2016, 22, 7-20.	5.9	15
86	Microstructural Analysis of Machined Surface Integrity in Drilling a Titanium Alloy. Journal of Materials Engineering and Performance, 2017, 26, 4391-4401.	2.5	15
87	Slippage on a particle-laden liquid-gas interface in textured microchannels. Physics of Fluids, 2018, 30, .	4.0	15
88	Microfluidic Techniques for Platelet Separation and Enrichment. Journal of the Indian Institute of Science, 2018, 98, 185-200.	1.9	15
89	Slip flow through microchannels with lubricant-infused bi-dimensional textured surfaces. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	15
90	Three-dimensional topography analysis of electrical discharge textured SS304 surfaces. Journal of Manufacturing Processes, 2020, 60, 384-399.	5.9	15

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91	Surface quality analysis in ball end milling of Inconel 718 cantilevers by response surface methodology. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 628-640.	2.4	14
92	Analytical Modelling of Temperature in Cylindrical Grinding to Predict Grinding Burns. International Journal of Precision Engineering and Manufacturing, 2019, 20, 13-25.	2.2	14
93	Analysis of Electrolytic Flow Effects in Micro-Electrochemical Grinding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	2.2	13
94	Micro-drilling of straight and inclined holes on thermal barrier coated Inconel 718 for turbine blade cooling. Materials and Manufacturing Processes, 2020, 35, 783-796.	4.7	13
95	Experimental Characterization of Vibration-Assisted Reverse Micro Electrical Discharge Machining (EDM) for Surface Texturing. , 2012, , .		12
96	Modeling of microcrack formation in orthogonal machining. International Journal of Machine Tools and Manufacture, 2014, 80-81, 18-29.	13.4	12
97	Analysis of electrical discharge texturing using different electrode materials. Advances in Materials and Processing Technologies, 2018, 4, 466-479.	1.4	12
98	Multi-spark model for predicting surface roughness of electrical discharge textured surfaces. International Journal of Advanced Manufacturing Technology, 2020, 106, 3741-3758.	3.0	12
99	Thermal modeling of drilling process in titanium alloy (Ti-6Al-4V). Machining Science and Technology, 2020, 24, 341-365.	2.5	12
100	Finite element analysis of tensile notched strength of composite laminates. Composite Structures, 2021, 255, 112880.	5.8	12
101	Modeling of Material Removal Rate in Micro-ECG Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	2.2	11
102	Pre-metallization processes for c-Si solar cells. Solar Energy, 2013, 97, 388-397.	6.1	11
103	Numerical modeling of passive layer formation and stabilization in electrochemical polishing process. Journal of Manufacturing Processes, 2015, 18, 107-116.	5.9	10
104	Demarcating wetting states in textured microchannels under flow conditions by Poiseuille number. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	10
105	Extracting white blood cells from blood on microfluidics platform: a review of isolation techniques and working mechanisms. Journal of Micromechanics and Microengineering, 2022, 32, 053001.	2.6	10
106	Comparative Analysis of the Process Mechanics in Micro-Electrical Discharge Machining (EDM) and Reverse Micro-EDM. , 2011, , .		9
107	Numerical simulation of micro hot embossing of polymer substrate. International Journal of Precision Engineering and Manufacturing, 2012, 13, 2215-2224.	2.2	9
108	Analytical Modeling of Chip Geometry in High-Speed Ball-End Milling on Inclined Inconel-718 Workpieces. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	9

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109	Modeling of chip geometry in ball-end milling of superalloy using strains in deformed chip (SDC) approach. International Journal of Machine Tools and Manufacture, 2018, 130-131, 49-64.	13.4	9
110	Analytical modeling of exit Burr in drilling of Ti6Al4V alloy. Sadhana - Academy Proceedings in Engineering Sciences, 2019, 44, 1.	1.3	9
111	Experimental investigation on dry EDM using helium gas dielectric. International Journal of Manufacturing Technology and Management, 2011, 24, 40.	0.1	8
112	Experimental characterization of plane and conformal hydrodynamic polishing of machined single crystal sapphire. Manufacturing Letters, 2013, 1, 70-73.	2.2	8
113	Modeling of silicon ingot slicing process by wireâ€“electrical discharge machining. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 1664-1678.	2.4	8
114	Modelling effect of magnetic field on material removal in dry electrical discharge machining. Plasma Science and Technology, 2017, 19, 025505.	1.5	8
115	High Strain Rate and High Temperature Behavior of Tiâ€“6Alâ€“4V Alloy Under Compressive Loading. Journal of Engineering Materials and Technology, Transactions of the ASME, 2018, 140, .	1.4	8
116	Machining aspects of a high carbon Fe3Al alloy. Journal of Materials Processing Technology, 2004, 147, 131-138.	6.3	7
117	Shear properties of acrylic under high strain rate loading. Journal of Applied Polymer Science, 2011, 121, 1631-1639.	2.6	7
118	Numerical characterization of laminar bulk flow over textured surfaces. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2011, 10, 023008.	0.9	7
119	Transient Analysis of Laser Ablation Process With Plasma Shielding: One-Dimensional Model Using Finite Volume Method. Journal of Micro and Nano-Manufacturing, 2013, 1, .	0.7	7
120	Effect of Water Oil Mist Spray (WOMS) Cooling on Drilling of Ti6Al4V Alloy Using Ester Oil Based Cutting Fluid. Procedia Manufacturing, 2016, 6, 71-79.	1.9	7
121	Effect of Tool Path Complexity on Top Burrs in Micromilling. Procedia Manufacturing, 2019, 34, 432-439.	1.9	7
122	Design Evolution and Performance Study of a Reliable Platelet-Rich Plasma Microdevice. Industrial & Engineering Chemistry Research, 2020, 59, 20515-20526.	3.7	7
123	Surface Quality and Contamination on Si Wafer Surfaces Sliced Using Wire-Electrical Discharge Machining. Journal of Engineering Materials and Technology, Transactions of the ASME, 2019, 141, .	1.4	7
124	Elastohydrodynamic Lubrication Modeling of Hydrodynamic Nanopolishing Process. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	2.2	6
125	Analysis of Debris Motion in Vibration Assisted Reverse Micro Electrical Discharge Machining. , 2014, , .		6
126	Experimental analysis of burr formation in drilling of TI-6AL-4V alloy. International Journal of Mechatronics and Manufacturing Systems, 2016, 9, 237.	0.1	6

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127	Drilling of Titanium Alloy using Heat Sink-based Ice Water Cooling. Procedia Manufacturing, 2018, 26, 633-644.	1.9	6
128	Influence of texture shape and arrangement on thermo-hydraulic performance of the textured microchannels. International Journal of Thermal Sciences, 2020, 147, 106146.	4.9	6
129	Investigation of Tool and Workpiece Interaction on Surface Quality While Diamond Turning of Copper Beryllium Alloy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	6
130	Modeling cutting edge degradation by chipping in micro-milling. Wear, 2022, 488-489, 204141.	3.1	6
131	Modeling of electrochemical micromachining: comparison to experiments. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2008, 7, 033015.	0.9	5
132	Some Aspects of Improving Integrity of Machined Surfaces on Al/SiCp Metal Matrix Composites. Key Engineering Materials, 2010, 443, 596-601.	0.4	5
133	Characterisation of friction at the toolâ€“chip interface for orthogonal cutting of Ti-6Al-4V alloy. Advances in Materials and Processing Technologies, 2019, 5, 191-201.	1.4	5
134	Biophysical Phenomenon-Based Separation of Platelet-Poor Plasma from Blood. Industrial & Engineering Chemistry Research, 2021, 60, 7464-7473.	3.7	5
135	Burr Reduction in Drilling Titanium using Drills with Peripheral Slits. Transactions of the Indian Institute of Metals, 2021, 74, 1155-1172.	1.5	5
136	Effect of various parameters on the distribution and extraction of platelets in a microfluidic system. Microfluidics and Nanofluidics, 2021, 25, 1.	2.2	5
137	Burr Formation in Drilling Intersecting Holes with Machinable Austempered Ductile Iron (MADIâ„¢). Journal of Manufacturing Processes, 2007, 9, 35-46.	5.9	4
138	Experimental characterization of hydrodynamic nanopolishing of flat steel plates. Precision Engineering, 2012, 36, 424-434.	3.4	4
139	Design of textured surfaces for super-hydrophobicity. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 1915-1927.	1.3	4
140	Analytical Model of Progression of Flank Wear Land Width in Drilling. Journal of Tribology, 2019, 141, .	1.9	4
141	Evaluation of an Adhesive Friction Coefficient under Extreme Contact Conditions and Its Application to the Machining Process. Tribology Transactions, 2020, 63, 841-856.	2.0	4
142	Experimental Study on Laser-Induced Surface Damage of a Single-Crystal Nickel-Based Superalloy Under Continuous Wave Fiber Laser Scanning Process. Journal of Engineering Materials and Technology, Transactions of the ASME, 2022, 144, .	1.4	4
143	Machining of Al/SiCp Metal Matrix Composites at Low Temperature Heating Prior to Machining. Applied Mechanics and Materials, 2012, 197, 428-432.	0.2	3
144	An Experimental Analysis of Ultrasonic Vibration Assisted Tapping of Ti-6Al-4V. , 0, , .		3

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145	Parametric Understanding of Electro-Chemical Buffing (ECB) Using Current-Voltage Characterization. Machining Science and Technology, 2015, 19, 440-459.	2.5	3
146	Design and development of a vision-based micro-assembly system. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 1164-1168.	2.4	3
147	Fracture Energy Evaluation Using J-Integral in Orthogonal Microcutting. Journal of Micro and Nano-Manufacturing, 2016, 4, .	0.7	3
148	Surface integrity analysis in Heat Sink-based Dry Drilling of Titanium Alloy. Materials Today: Proceedings, 2018, 5, 19529-19538.	1.8	3
149	Surface integrity and wafer-thickness variation analysis of ultra-thin silicon wafers sliced using wire-EDM. Advances in Materials and Processing Technologies, 2019, 5, 512-525.	1.4	3
150	Characterization of Surface Topographies Generated using Circular- and Cylindrical-Face EDT. Surface Topography: Metrology and Properties, 2020, 8, 045018.	1.6	3
151	Efficient dicing of silicon ingots for photovoltaic applications. , 2010, , .		2
152	Investigation on Chip Morphology and Surface Quality in High-Speed Ball-End Milling of Inconel 718. Key Engineering Materials, 0, 443, 353-358.	0.4	2
153	Analytical model to predict temperature distribution and ablation depth in excimer laser micromachining. International Journal of Precision Engineering and Manufacturing, 2013, 14, 29-36.	2.2	2
154	Wear and progression of life of plasma nitrided four-faceted high-speed steel drills with varying geometries. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 1885-1896.	2.4	2
155	Contribution of specific work of fracture to size effect in microcutting. Machining Science and Technology, 2016, 20, 567-585.	2.5	2
156	Experimental investigation of the correlation between surface roughness and tool-life in micromilling. Advances in Materials and Processing Technologies, 2019, 5, 67-77.	1.4	2
157	Wire mask assisted rolling as a cost-effective method for high-throughput surface micro-texturing. Journal of Micromechanics and Microengineering, 2020, 30, 075010.	2.6	2
158	A finite-element heat transfer model for orthogonal cutting. Advances in Materials and Processing Technologies, 2020, 6, 686-702.	1.4	2
159	Light Harvesting Using Biomimetic Micro-textured Transparent Films for Photovoltaic Applications. , 2021, 6, 775-785.		2
160	Microscopic Textured Surfaces for Micro-Fluidic Applications. International Journal of Automation Technology, 2011, 5, 30-37.	1.0	2
161	Effect of Tool Condition on Cutting Mechanism in Micromilling. , 2019, , .		2
162	Experiments with Miniature Wire EDM for Silicon. Procedia CIRP, 2020, 95, 296-301.	1.9	2

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163	Coolant flow in drilling titanium considering two phase boiling. International Journal of Mechanical Sciences, 2022, 230, 107543.	6.7	2
164	Three-dimensional simulation of staggered flow forming process. International Journal of Manufacturing Technology and Management, 2015, 29, 324.	0.1	1
165	Analytical Model of Progression of Flank Wear Land Width in Drilling. , 2016, , .		1
166	Heat sink approach to improve machinability in dry drilling of titanium alloys. , 2018, , .		1
167	Microstructural assessment of drilled cross-sections on titanium generated under different cooling strategies. Materials Today Communications, 2021, 26, 101954.	1.9	1
168	Parametric Analysis of Cylindrical Plunge Grinding on Micro-Alloyed Steel Using Taguchi Analysis. Key Engineering Materials, 2016, 705, 255-259.	0.4	0
169	Numerical Simulation and Experimentation on Electrochemical Buffing. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, .	2.2	0
170	Forced vibration response of a micro-cantilever beam with moving loads. , 2017, , .		0
171	Effect of Composition, Microstructure and Hardness after Heat Treatment on Machinability of Steel Forgings. Journal of Materials Engineering and Performance, 2020, 29, 1751-1766.	2.5	0
172	Strategy development for chatter-free milling of Ti-6Al-4V thin-walled surfaces using stability region diagram (SRD). Machining Science and Technology, 2021, 25, 899-929.	2.5	0
173	Experimental characterization of conformal hydrodynamic nanopolishing of a machined single crystal sapphire cavity. Journal of Micromanufacturing, 0, , 251659842110153.	1.1	0
174	Grindability and Surface Integrity of Nickel-Based Cast Superalloy IN-738 by Vitrified Alumina Wheel. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 325-337.	0.6	0
175	Comparative electrical characterization of spark-erosion of silicon and steel as a base and its implications on equivalent circuit. Materials Science in Semiconductor Processing, 2022, 137, 106199.	4.0	0
176	Analysis of Electrical Forces in Multi-wire EDM for Semiconductors. Procedia CIRP, 2020, 95, 302-307.	1.9	0
177	Monitoring Shearing-Plowing Transitions in Micro-Milling Using Fluctuations in Cutting Forces. Journal of Micro and Nano-Manufacturing, 2021, 9, .	0.7	0