

Grzegorz KrÅ³lczyk

List of Publications by Year in descending order

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186
papers

7,146
citations

41323

49
h-index

76872

74
g-index

189
all docs

189
docs citations

189
times ranked

3403
citing authors

#	ARTICLE	IF	CITATIONS
1	Ecological trends in machining as a key factor in sustainable production – A review. Journal of Cleaner Production, 2019, 218, 601-615.	4.6	301
2	An approach to cleaner production for machining hardened steel using different cooling-lubrication conditions. Journal of Cleaner Production, 2018, 187, 1069-1081.	4.6	202
3	A study on droplets sizes, their distribution and heat exchange for minimum quantity cooling lubrication (MQCL). International Journal of Machine Tools and Manufacture, 2016, 100, 81-92.	6.2	197
4	Multi-objective optimization and life cycle assessment of eco-friendly cryogenic N2 assisted turning of Ti-6Al-4V. Journal of Cleaner Production, 2019, 210, 121-133.	4.6	165
5	Prediction of cutting forces during micro end milling considering chip thickness accumulation. International Journal of Machine Tools and Manufacture, 2019, 147, 103466.	6.2	140
6	Parametric and nonparametric description of the surface topography in the dry and MQCL cutting conditions. Measurement: Journal of the International Measurement Confederation, 2018, 121, 225-239.	2.5	131
7	The influence of the cooling conditions on the cutting tool wear and the chip formation mechanism. Journal of Manufacturing Processes, 2016, 24, 107-115.	2.8	130
8	Tool wear characterizations in finish turning of AISI 1045 carbon steel for MQCL conditions. Wear, 2017, 372-373, 54-67.	1.5	129
9	Metrological changes in surface morphology of high-strength steels in manufacturing processes. Measurement: Journal of the International Measurement Confederation, 2016, 88, 176-185.	2.5	127
10	Determination of tool life and research wear during duplex stainless steel turning. Archives of Civil and Mechanical Engineering, 2015, 15, 347-354.	1.9	126
11	Dry cutting effect in turning of a duplex stainless steel as a key factor in clean production. Journal of Cleaner Production, 2017, 142, 3343-3354.	4.6	122
12	Review on design and development of cryogenic machining setups for heat resistant alloys and composites. Journal of Manufacturing Processes, 2021, 68, 398-422.	2.8	119
13	Application of signal to noise ratio and grey relational analysis to minimize forces and vibrations during precise ball end milling. Precision Engineering, 2018, 51, 582-596.	1.8	118
14	A state-of-the-art review on tool wear and surface integrity characteristics in machining of superalloys. CIRP Journal of Manufacturing Science and Technology, 2021, 35, 624-658.	2.3	111
15	Surface quality and topographic inspection of variable compliance part after precise turning. Applied Surface Science, 2018, 434, 91-101.	3.1	104
16	Experimental characterisation of the performance of hybrid cryo-lubrication assisted turning of Ti-6Al-4V alloy. Tribology International, 2021, 153, 106582.	3.0	102
17	A comprehensive review on research developments of vegetable-oil based cutting fluids for sustainable machining challenges. Journal of Manufacturing Processes, 2021, 67, 286-313.	2.8	99
18	Surface morphology analysis of Duplex Stainless Steel (DSS) in Clean Production using the Power Spectral Density. Measurement: Journal of the International Measurement Confederation, 2016, 94, 464-470.	2.5	98

#	ARTICLE	IF	CITATIONS
19	Surface Modification of Ti-6Al-4V Alloy by Electrical Discharge Coating Process Using Partially Sintered Ti-Nb Electrode. <i>Materials</i> , 2019, 12, 1006.	1.3	97
20	Study on metrological relations between instant tool displacements and surface roughness during precise ball end milling. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 129, 686-694.	2.5	95
21	Evaluation of turning with different cooling-lubricating techniques in terms of surface integrity and tribologic properties. <i>Tribology International</i> , 2020, 148, 106334.	3.0	92
22	Evaluating Hole Quality in Drilling of Al 6061 Alloys. <i>Materials</i> , 2018, 11, 2443.	1.3	80
23	Investigation on the edge forces in ball end milling of inclined surfaces. <i>International Journal of Mechanical Sciences</i> , 2016, 119, 360-369.	3.6	78
24	Structural and Microhardness Changes After Turning of the AISI 1045 Steel for Minimum Quantity Cooling Lubrication. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 431-438.	1.2	77
25	Optimisation of machining parameters during ball end milling of hardened steel with various surface inclinations. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 111, 18-28.	2.5	76
26	Investigation of machining characteristics of hard-to-machine Ti-6Al-4V-ELI alloy for biomedical applications. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4849-4862.	2.6	76
27	Copper alloys disintegration using pulsating water jet. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 82, 375-383.	2.5	75
28	Effects of extreme pressure and anti-wear additives on surface topography and tool wear during MQL turning of AISI 1045 steel. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 1585-1591.	0.7	75
29	Multiple-Criteria Decision-Making and Sensitivity Analysis for Selection of Materials for Knee Implant Femoral Component. <i>Materials</i> , 2021, 14, 2084.	1.3	75
30	Synthesis, Characterization, Corrosion Resistance and In-Vitro Bioactivity Behavior of Biodegradable Mg-Zn-Mn (Si-HA) Composite for Orthopaedic Applications. <i>Materials</i> , 2018, 11, 1602.	1.3	73
31	Material ratio curve as information on the state of surface topography – A review. <i>Precision Engineering</i> , 2020, 65, 240-258.	1.8	73
32	Precision surface characterization for finish cylindrical milling with dynamic tool displacements model. <i>Precision Engineering</i> , 2016, 46, 158-165.	1.8	72
33	Machining parameter optimization in shear thickening polishing of gear surfaces. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5112-5126.	2.6	71
34	Experimental studies of the cutting force and surface morphology of explosively clad Ti steel plates. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 78, 129-137.	2.5	68
35	Measurement and evaluation of hole attributes for drilling CFRP composites using an indigenously developed cryogenic machining facility. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 154, 107504.	2.5	68
36	Influence of duplex jets MQL and nano-MQL cooling system on machining performance of Nimonic 80A. <i>Journal of Manufacturing Processes</i> , 2021, 69, 112-124.	2.8	68

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37	Sustainable cooling strategies to reduce tool wear, power consumption and surface roughness during ultrasonic assisted turning of Ti-6Al-4V. <i>Tribology International</i> , 2022, 169, 107494.	3.0	67
38	Surface Characteristics of Machined Polystyrene with 3D Printed Thermoplastic Tool. <i>Materials</i> , 2020, 13, 2729.	1.3	64
39	Analysis of Contact Phenomena and Heat Exchange in the Cutting Zone Under Minimum Quantity Cooling Lubrication conditions. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 661-668.	1.1	63
40	Determination of vibration frequency depending on abrasive mass flow rate during abrasive water jet cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 77, 763-774.	1.5	62
41	Roughness Parameters Calculation By Means Of On-Line Vibration Monitoring Emerging From AWJ Interaction With Material. <i>Metrology and Measurement Systems</i> , 2015, 22, 315-326.	1.4	62
42	Modeling of cutter displacements during ball end milling of inclined surfaces. <i>Archives of Civil and Mechanical Engineering</i> , 2015, 15, 798-805.	1.9	62
43	Effect of the Relative Position of the Face Milling Tool towards the Workpiece on Machined Surface Roughness and Milling Dynamics. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 842.	1.3	62
44	Intelligent Optimization of Hard-Turning Parameters Using Evolutionary Algorithms for Smart Manufacturing. <i>Materials</i> , 2019, 12, 879.	1.3	62
45	Investigation of wear and tool life of coated carbide and cubic boron nitride cutting tools in high speed milling. <i>Advances in Mechanical Engineering</i> , 2015, 7, 168781401559021.	0.8	61
46	Comparative assessment of the mechanical and electromagnetic surfaces of explosively clad Ti-steel plates after drilling process. <i>Precision Engineering</i> , 2017, 47, 104-110.	1.8	61
47	Microwave sintering of porous Ti-Nb-HA composite with high strength and enhanced bioactivity for implant applications. <i>Journal of Alloys and Compounds</i> , 2020, 824, 153774.	2.8	61
48	Renewable energy storage and sustainable design of hybrid energy powered ships: A case study. <i>Journal of Energy Storage</i> , 2021, 43, 103266.	3.9	61
49	The Use of Focus-Variation Microscopy for the Assessment of Active Surfaces of a New Generation of Coated Abrasive Tools. <i>Measurement Science Review</i> , 2016, 16, 42-53.	0.6	60
50	Measurement and analysis of wind energy potential using fuzzy based hybrid MADM approach. <i>Energy Reports</i> , 2020, 6, 228-237.	2.5	60
51	Experimental Analysis by Measurement of Surface Roughness Variations in Turning Process of Duplex Stainless Steel. <i>Metrology and Measurement Systems</i> , 2014, 21, .	1.4	56
52	Processing of Ti50Nb50-xHx composites by rapid microwave sintering technique for biomedical applications. <i>Journal of Materials Research and Technology</i> , 2020, 9, 242-252.	2.6	56
53	Influence of argon pollution on the weld surface morphology. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 70, 203-213.	2.5	55
54	In-house development of eco-friendly lubrication techniques (EMQL, Nanoparticles+EMQL and EL) for improving machining performance of 15-5 PHSS. <i>Tribology International</i> , 2020, 151, 106476.	3.0	55

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55	Heat transfer enhancement of latent heat thermal energy storage in solar heating system: A state-of-the-art review. <i>Journal of Energy Storage</i> , 2022, 46, 103727.	3.9	52
56	An influence of active additives on the formation of selected indicators of the condition of the X10CrNi18-8 stainless steel surface layer in MQCL conditions. <i>International Journal of Surface Science and Engineering</i> , 2015, 9, 452.	0.4	51
57	Improvement of surface integrity of Nimonic C 263 super alloy produced by WEDM through various post-processing techniques. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 433-443.	1.5	51
58	Cutting tool wear in turning 316L stainless steel in the conditions of minimized lubrication. <i>Tribology International</i> , 2021, 156, 106813.	3.0	51
59	Chip Formation Zone Analysis During the Turning of Austenitic Stainless Steel 316L under MQCL Cooling Condition. <i>Procedia Engineering</i> , 2016, 149, 297-304.	1.2	49
60	Impact of layer rotation on micro-structure, grain size, surface integrity and mechanical behaviour of SLM Al-Si-10Mg alloy. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9506-9522.	2.6	48
61	Artificial Intelligence-Based Hole Quality Prediction in Micro-Drilling Using Multiple Sensors. <i>Sensors</i> , 2020, 20, 885.	2.1	48
62	Multi-objective optimization of drilling parameters for orthopaedic implants. <i>Measurement and Control</i> , 2020, 53, 1902-1910.	0.9	44
63	Environmental, technological and economical aspects of cryogenic assisted hard machining operation of inconel 718: A step towards green manufacturing. <i>Journal of Cleaner Production</i> , 2022, 337, 130483.	4.6	44
64	Influence of hydrostatic burnishing strategy on the surface topography of martensitic steel. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 138, 590-601.	2.5	43
65	Effect of temperature on the transmission characteristics of high-torque magnetorheological brakes. <i>Smart Materials and Structures</i> , 2019, 28, 057002.	1.8	41
66	Technological and tribological aspects of milling-burnishing process of complex surfaces. <i>Tribology International</i> , 2021, 155, 106770.	3.0	41
67	Microscopic characteristics of magnetorheological fluids subjected to magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 501, 166443.	1.0	40
68	Cutting forces and temperature measurements in cryogenic assisted turning of AA2024-T351 alloy: An experimentally validated simulation approach. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 188, 110594.	2.5	40
69	Experimental investigation into nano-finishing of Î ² -TNTZ alloy using magnetorheological fluid magnetic abrasive finishing process for orthopedic applications. <i>Journal of Materials Research and Technology</i> , 2021, 11, 600-617.	2.6	39
70	Wear characteristics and defects analysis of friction stir welded joint of aluminium alloy 6061-T6. <i>Eksploatacja I Niezawodnosc</i> , 2016, 18, 128-135.	1.1	37
71	Analysis of relation between the 3D printer laser beam power and the surface morphology properties in Ti-6Al-4V titanium alloy parts. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	0.8	36
72	Experimental investigation and sustainability assessment to evaluate environmentally clean machining of 15-5 PH stainless steel. <i>Journal of Manufacturing Processes</i> , 2020, 56, 1027-1038.	2.8	35

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73	A fractographic study exploring the fracture surface topography of S35J2 steel after pseudo-random bending-torsion fatigue tests. Measurement: Journal of the International Measurement Confederation, 2021, 178, 109443.	2.5	35
74	Optimization of Power Consumption Associated with Surface Roughness in Ultrasonic Assisted Turning of Nimonic-90 Using Hybrid Particle Swarm-Complex Method. Materials, 2019, 12, 3418.	1.3	34
75	Measurement and analysis of machining induced tribological characteristics in dual jet minimum quantity lubrication assisted turning of duplex stainless steel. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110353.	2.5	34
76	Structural fatigue life prediction considering model uncertainties through a novel digital twin-driven approach. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114512.	3.4	33
77	Dimensionless Analysis for Investigating the Quality Characteristics of Aluminium Matrix Composites Prepared through Fused Deposition Modelling Assisted Investment Casting. Materials, 2019, 12, 1907.	1.3	32
78	Phase change material heat storage performance in the solar thermal storage structure employing experimental evaluation. Journal of Energy Storage, 2022, 46, 103638.	3.9	31
79	Numerical and experimental investigations of built orientation dependent Johnsonâ€™Cook model for selective laser melting manufactured AlSi10Mg. Journal of Materials Research and Technology, 2021, 15, 6244-6259.	2.6	30
80	Indirect monitoring of machining characteristics via advanced sensor systems: a critical review. International Journal of Advanced Manufacturing Technology, 2022, 120, 7043-7078.	1.5	30
81	Characterization of Friction Surfaced Coatings of AISI 316 Tool over High-Speed-Steel Substrate. Transactions of Fadena, 2017, 41, 61-76.	0.3	29
82	Experimental and Numerical Assessment of Temperature Field and Analysis of Microstructure and Mechanical Properties of Low Power Laser Annealed Welded Joints. Materials, 2018, 11, 1514.	1.3	29
83	Data-driven Algorithm for real-time fatigue life prediction of structures with stochastic parameters. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113373.	3.4	29
84	Influence of cryogenic treatment on mechanical performance of friction stir Al-Zn-Cu alloy weldments. Journal of Manufacturing Processes, 2020, 56, 43-53.	2.8	29
85	A short review on thermal treatments of Titanium & Nickel based alloys processed by selective laser melting. Journal of Materials Research and Technology, 2022, 16, 1090-1101.	2.6	29
86	Effect of Hybrid Machining Techniques on Machining Performance of In-House Developed Mg-PMMC. Transactions of the Indian Institute of Metals, 2019, 72, 1799-1807.	0.7	28
87	Surface topography analysis based on fatigue fractures obtained with bending of the 2017A-T4 alloy. Measurement: Journal of the International Measurement Confederation, 2020, 152, 107347.	2.5	28
88	A technical overview of metallic parts in hybrid additive manufacturing industry. Journal of Materials Research and Technology, 2022, 18, 384-395.	2.6	28
89	Metrological analysis of surface quality aspects in minimum quantity cooling lubrication. Measurement: Journal of the International Measurement Confederation, 2021, 171, 108847.	2.5	27
90	Quality Evaluation of Surface Layer in Highly Accurate Manufacturing. Manufacturing Technology, 2014, 14, 50-56.	0.2	26

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91	Tribological and surface morphological characteristics of titanium alloys: a review. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	1.9	25
92	Assessment of the classification ability of parameters characterizing surface topography formed in manufacturing and operation processes. Measurement: Journal of the International Measurement Confederation, 2021, 170, 108715.	2.5	24
93	Sensors selection for tool failure detection during machining processes: A simple accurate classification model. CIRP Journal of Manufacturing Science and Technology, 2021, 32, 108-119.	2.3	24
94	In-process detection of cutting forces and cutting temperature signals in cryogenic assisted turning of titanium alloys: An analytical approach and experimental study. Mechanical Systems and Signal Processing, 2022, 169, 108772.	4.4	23
95	Influence of the main cutting edge angle value on minimum uncut chip thickness during turning of C45 steel. Journal of Manufacturing Processes, 2020, 57, 354-362.	2.8	22
96	Materials Flow Analysis in the Production Process - Case Study. Applied Mechanics and Materials, 2014, 474, 97-102.	0.2	20
97	Magneto-Rheological Fluid Assisted Abrasive Nanofinishing of $\hat{\Gamma}^2$ -Phase Ti-Nb-Ta-Zr Alloy: Parametric Appraisal and Corrosion Analysis. Materials, 2020, 13, 5156.	1.3	18
98	Metrological basis for assessing the state of the active surface of abrasive tools based on parameters characterizing their machining potential. Measurement: Journal of the International Measurement Confederation, 2020, 165, 108068.	2.5	18
99	Influence of geometry and surface morphology of the U-tube on the fluid flow in the range of various velocities. Measurement: Journal of the International Measurement Confederation, 2020, 164, 108094.	2.5	18
100	Surface Roughness Evaluation in Thin EN AW-6086-T6 Alloy Plates after Face Milling Process with Different Strategies. Materials, 2021, 14, 3036.	1.3	18
101	Mathematical modeling and multi-attribute rule mining for energy efficient job-shop scheduling. Journal of Cleaner Production, 2019, 241, 118289.	4.6	17
102	Solving Scheduling Problem in a Distributed Manufacturing System Using a Discrete Fruit Fly Optimization Algorithm. Energies, 2019, 12, 3260.	1.6	16
103	Experimental analysis of wear and multi-shape burr loading during neurosurgical bone grinding. Journal of Materials Research and Technology, 2021, 12, 15-28.	2.6	16
104	Damage Detection for Conveyor Belt Surface Based on Conditional Cycle Generative Adversarial Network. Sensors, 2022, 22, 3485.	2.1	16
105	Surface texture formation in precision machining of direct laser deposited tungsten carbide. Advances in Manufacturing, 2017, 5, 251-260.	3.2	15
106	Solar medium-low temperature thermal utilization and effect analysis of boundary condition: A tutorial. Solar Energy, 2020, 197, 238-253.	2.9	15
107	3D Parametric and Nonparametric Description of Surface Topography in Manufacturing Processes. Materials, 2021, 14, 1987.	1.3	15
108	The Roles of Magnetorheological Fluid in Modern Precision Machining Field: A Review. Frontiers in Materials, 2021, 8, .	1.2	15

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109	Technology development and commercial applications of industrial fault diagnosis system: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 3497-3529.	1.5	15
110	Belt Tear Detection for Coal Mining Conveyors. <i>Micromachines</i> , 2022, 13, 449.	1.4	15
111	On the Chip Shaping and Surface Topography When Finish Cutting 17-4 PH Precipitation-Hardening Stainless Steel under Near-Dry Cutting Conditions. <i>Materials</i> , 2020, 13, 2188.	1.3	14
112	On the evaluation of certain strength characteristics and fracture features of iron-based sintered MMCs with nanooxide additives. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 756, 455-463.	2.6	13
113	Study on physical and technological effects of precise turning with self-propelled rotary tool. <i>Precision Engineering</i> , 2020, 66, 62-75.	1.8	13
114	Functional grading of surfaces through hybrid ultrasonic, abrasive water jet, and electric discharge machining processing. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021, 43, 1.	0.8	13
115	The Machinability of Duplex Stainless Steel - Solutions in Practice. <i>Manufacturing Technology</i> , 2013, 13, 473-478.	0.2	13
116	A new coverage path planning algorithm for unmanned surface mapping vehicle based on A-star based searching. <i>Applied Ocean Research</i> , 2022, 123, 103163.	1.8	13
117	Analysis of 3D printing parameters of gears for hybrid manufacturing. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	12
118	Synergy effect of ultrafine tungsten, silicon carbides, and graphite microadditives on the Fe-based MMCs properties using the simplex lattice design. <i>Journal of Alloys and Compounds</i> , 2018, 757, 31-38.	2.8	12
119	Advances in Hardâ€™toâ€™Cut Materials: Manufacturing, Properties, Process Mechanics and Evaluation of Surface Integrity. <i>Materials</i> , 2020, 13, 612.	1.3	12
120	A Novel Method of Laser Coating Process on Worn-Out Cutter Rings of Tunnel Boring Machine for Eco-Friendly Reuse. <i>Symmetry</i> , 2020, 12, 471.	1.1	12
121	Investigations on surface induced tribological characteristics in MQCL assisted machining of duplex stainless steel. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2754-2769.	2.6	12
122	Measurement and mathematical model of convexo-concave Novikov gear mesh. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 125, 516-525.	2.5	11
123	Analysis of the Deviation in a Low-Cost System for Stepless Digital Control of Conventional Lathe Spindle Speeds. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 12.	1.3	11
124	A novel empirical heat transfer model for a solar thermal storage process using phase change materials. <i>Energy</i> , 2019, 168, 222-234.	4.5	11
125	Impact of Cryogenic Treatment on HCF and FCP Performance of Î²-Solution Treated Ti-6Al-4V ELI Biomaterial. <i>Materials</i> , 2020, 13, 500.	1.3	11
126	The effect of active surface morphology of grinding wheel with zone-diversified structure on the form of chips in traverse internal cylindrical grinding of 100Cr6 steel. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 965-978.	1.5	10

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127	Obtaining Various Shapes of Machined Surface Using a Tool with a Multi-Insert Cutting Edge. Applied Sciences (Switzerland), 2019, 9, 880.	1.3	10
128	Heat transfer mathematical model for a novel parabolic trough solar collecting system with V-shaped cavity absorber. Sustainable Cities and Society, 2020, 52, 101837.	5.1	10
129	Optimization and characterization of friction surfaced coatings of ferrous alloys. Materialpruefung/Materials Testing, 2018, 60, 707-718.	0.8	10
130	Influence of Minimum Quantity Cooling Lubrication (MQCL) on Chip Formation Zone Factors and Shearing Force in Turning AISI 1045 Steel. Applied Mechanics and Materials, 0, 657, 43-47.	0.2	8
131	Experimental and mathematical evaluation of thermal and tensile properties of friction stir welded joint. International Journal of Materials and Product Technology, 2018, 57, 204.	0.1	8
132	Measurement of thermal emission during cutting of materials using abrasive water jet. Thermal Science, 2017, 21, 2197-2203.	0.5	8
133	Formation of Surface Topography During Turning of AISI 1045 Steel Considering the Type of Cutting Edge Coating. Advances in Science and Technology Research Journal, 2021, 15, 253-266.	0.4	8
134	Tribological and thermal behavior with wear identification in contact interaction of the Ti6Al4V-sintered carbide with AlTiN coatings pair. Tribology International, 2022, 167, 107394.	3.0	8
135	Visualizing rheological mechanism of magnetorheological fluids. Smart Materials and Structures, 2022, 31, 025027.	1.8	8
136	A novel machine learning model for safety risk analysis in flywheel-battery hybrid energy storage system. Journal of Energy Storage, 2022, 49, 104072.	3.9	8
137	Dynamic Balancing of the Threshing Drum in Combine Harvesters – The Process, Sources of Imbalance and Negative Impact of Mechanical Vibrations. Applied Mechanics and Materials, 0, 693, 424-429.	0.2	7
138	Influence of Technological Cutting Parameters on Surface Texture of Austenitic Stainless Steel. Applied Mechanics and Materials, 2014, 693, 430-435.	0.2	7
139	Influence of tack operation on metallographic and angular distortion in electron beam welding of Ti-6Al-4V alloy. Measurement: Journal of the International Measurement Confederation, 2021, 175, 109160.	2.5	7
140	Erosion characteristics on surface texture of additively manufactured AlSi10Mg alloy in SiO ₂ quartz added slurry environment. Rapid Prototyping Journal, 2022, 28, 916-932.	1.6	7
141	Effect of Minimum Quantity Cooling Lubrication (MQCL) on Chip Morphology and Surface Roughness in Turning Low Carbon Steels. Applied Mechanics and Materials, 0, 657, 38-42.	0.2	6
142	Investigation of Heat Distribution in Coated Indexable Tool Inserts. Lecture Notes in Mechanical Engineering, 2018, , 661-670.	0.3	6
143	Designing and Testing Cold-Formed Rounded Connections Made on a Prototype Station. Materials, 2019, 12, 1061.	1.3	6
144	On the Microstructure, Strength, Fracture, and Tribological Properties of Iron-Based MMCs with Addition of Mixed Carbide Nanoparticulates. Materials, 2020, 13, 2892.	1.3	6

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145	A Novel Ferrofluid Rolling Robot: Design, Manufacturing, and Experimental Analysis. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	6
146	Concurrent Synthesis and Immobilization of Ag Nanoparticles over TiO ₂ via Plasma Reduction for Photocatalytic Treatment of Methyl Blue in Water. Materials, 2021, 14, 6082.	1.3	6
147	Testing of Tight Crimped Joint Made on a Prototype Stand. Lecture Notes in Mechanical Engineering, 2018, , 497-507.	0.3	5
148	Assessment of internal defects of hardfacing coatings in regeneration of machine parts. Journal of Central South University, 2018, 25, 1144-1153.	1.2	5
149	Fault Diagnosis of Rotating Machine. Applied Sciences (Switzerland), 2020, 10, 1961.	1.3	5
150	Transient nonlinear heat transfer analysis using a generic grid refinement for structure parameter variations. International Journal of Thermal Sciences, 2020, 153, 106357.	2.6	5
151	Comparison of microstructure and mechanical performance of laser and electron beam welded Ti6Al4V alloy. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	5
152	Machine vision-based intelligent manufacturing using a novel dual-template matching: a case study for lithium battery positioning. International Journal of Advanced Manufacturing Technology, 2021, 116, 2531-2551.	1.5	5
153	Rescheduling of Distributed Manufacturing System with Machine Breakdowns. Electronics (Switzerland), 2022, 11, 249.	1.8	5
154	Innovative Surface-Borehole Transient Electromagnetic Method for Sensing the Coal Seam Roof Grouting Effect. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-9.	2.7	5
155	Multifault Detection, Diagnosis, and Prognosis for Rotating Machinery. International Journal of Rotating Machinery, 2018, 2018, 1-1.	0.8	4
156	The Effect of an External Magnetic Field on the Aspect Ratio and Heat Input of Gas-Metal-Arc-Welded AZ31B Alloy Weld Joints Using a Response Surface Methodology. Materials, 2020, 13, 5269.	1.3	4
157	Life cycle assessment to establish sustainable cutting fluid strategy for drilling Ti-6Al-4V. Sustainable Materials and Technologies, 2021, 30, e00337.	1.7	4
158	Fusion Deconvolution for Reliability Analysis of A Flywheel-Battery Hybrid Energy Storage System. Journal of Energy Storage, 2022, 49, 104095.	3.9	4
159	Measuring Shape Parameters of Pearls in Batches Using Machine Vision: A Case Study. Micromachines, 2022, 13, 546.	1.4	4
160	Theoretical considerations on application of artificial intelligence in coordinate metrology. , 2021, , .		4
161	Monitoring Direct Current Resistivity During Coal Mining Process for Underground Water Detection: An Experimental Case Study. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-8.	2.7	4
162	The application of response surface method to optimization of precision ball end milling. MATEC Web of Conferences, 2017, 112, 01004.	0.1	3

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163	Testing of crimp connections made on a prototype stand. E3S Web of Conferences, 2017, 19, 03029.	0.2	3
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