Danil Yurievich Pimenov

List of Publications by Year
in descending order

204 papers	6,804 citations	57758 44 h-index	98798 67 g-index
206 all docs	206 docs citations	206 times ranked	2646 citing authors

#	Article	IF	Citations
1	An approach to cleaner production for machining hardened steel using different cooling-lubrication conditions. Journal of Cleaner Production, 2018, 187, 1069-1081.	9.3	202
2	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.	9.3	165
3	Predicting tool life in turning operations using neural networks and image processing. Mechanical Systems and Signal Processing, 2018, 104, 503-513.	8.0	157
4	Improvement of machinability of Ti and its alloys using cooling-lubrication techniques: a review and future prospect. Journal of Materials Research and Technology, 2021, 11, 719-753.	5.8	154
5	A Review of Indirect Tool Condition Monitoring Systems and Decision-Making Methods in Turning: Critical Analysis and Trends. Sensors, 2021, 21, 108.	3.8	148
6	Artificial intelligence for automatic prediction of required surface roughness by monitoring wear on face mill teeth. Journal of Intelligent Manufacturing, 2018, 29, 1045-1061.	7.3	139
7	Investigations of Machining Characteristics in the Upgraded MQL-Assisted Turning of Pure Titanium Alloys Using Evolutionary Algorithms. Materials, 2019, 12, 999.	2.9	128
8	Review on design and development of cryogenic machining setups for heat resistant alloys and composites. Journal of Manufacturing Processes, 2021, 68, 398-422.	5.9	119
9	Sustainability assessment associated with surface roughness and power consumption characteristics in nanofluid MQL-assisted turning of AISI 1045 steel. International Journal of Advanced Manufacturing Technology, 2019, 105, 1311-1327.	3.0	117
10	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.	4.5	111
11	Hybrid cooling-lubrication strategies to improve surface topography and tool wear in sustainable turning of Al 7075-T6 alloy. International Journal of Advanced Manufacturing Technology, 2019, 101, 55-69.	3.0	110
12	Parametric optimization and process capability analysis for machining of nickel-based superalloy. International Journal of Advanced Manufacturing Technology, 2019, 102, 3995-4009.	3.0	98
13	Cooling techniques to improve the machinability and sustainability of light-weight alloys: A state-of-the-art review. Journal of Manufacturing Processes, 2021, 62, 179-201.	5.9	98
14	Surface Modification of Ti-6Al-4V Alloy by Electrical Discharge Coating Process Using Partially Sintered Ti-Nb Electrode. Materials, 2019, 12, 1006.	2.9	97
15	Multi-Objective Optimization for Grinding of AISI D2 Steel with Al2O3 Wheel under MQL. Materials, 2018, 11, 2269.	2.9	96
16	Sustainable milling of Tiâ€“6Alâ€“4V: A trade-off between energy efficiency, carbon emissions and machining characteristics under MQL and cryogenic environment. Journal of Cleaner Production, 2021, 281, 125374.	9.3	95
17	Artificial intelligence systems for tool condition monitoring in machining: analysis and critical review. Journal of Intelligent Manufacturing, 2023, 34, 2079-2121.	7.3	90
18	Investigation on mechanical, tribological and microstructural properties of Alâ€“Mgâ€“Siâ€“T6/SiC/muscovite-hybrid metal-matrix composites for high strength applications. Journal of Materials Research and Technology, 2021, 12, 1564-1581.	5.8	84

#	Article	IF	Citations
19	Modeling of Cutting Parameters and Tool Geometry for Multi-Criteria Optimization of Surface Roughness and Vibration via Response Surface Methodology in Turning of AISI 5140 Steel. Materials, 2020, 13, 4242.	2.9	80
20	Comparative study on the mechanical, tribological, morphological and structural properties of vortex casting processed, Alâ€"SiCâ€"Cr hybrid metal matrix composites for high strength wear-resistant applications: Fabrication and characterizations. Journal of Materials Research and Technology, 2020, 9, 13607-13615.	5.8	80
21	Mechanical Strength Enhancement of 3D Printed Acrylonitrile Butadiene Styrene Polymer Components Using Neural Network Optimization Algorithm. Polymers, 2020, 12, 2250.	4.5	79
22	Optimization and Analysis of Surface Roughness, Flank Wear and 5 Different Sensorial Data via Tool Condition Monitoring System in Turning of AISI 5140. Sensors, 2020, 20, 4377.	3.8	78
23	Environment and economic burden of sustainable cooling/lubrication methods in machining of Inconel-800. Journal of Cleaner Production, 2021, 287, 125074.	9.3	77
24	Neural network approach for automatic image analysis of cutting edge wear. Mechanical Systems and Signal Processing, 2017, 88, 100-110.	8.0	76
25	Rice straw burning: a review on its global prevalence and the sustainable alternatives for its effective mitigation. Environmental Science and Pollution Research, 2021, 28, 32125-32155.	5.3	71
26	Experimental Analysis and Optimization of EDM Parameters on HcHcr Steel in Context with Different Electrodes and Dielectric Fluids Using Hybrid Taguchi-Based PCA-Utility and CRITIC-Utility Approaches. Metals, 2021, 11, 419.	2.3	70
27	Machining characteristics based life cycle assessment in eco-benign turning of pure titanium alloy. Journal of Cleaner Production, 2020, 251, 119598.	9.3	69
28	Taguchi S/N and TOPSIS Based Optimization of Fused Deposition Modelling and Vapor Finishing Process for Manufacturing of ABS Plastic Parts. Materials, 2020, 13, 5176.	2.9	69
29	Influence of Different Grades of CBN Inserts on Cutting Force and Surface Roughness of AISI H13 Die Tool Steel during Hard Turning Operation. Materials, 2019, 12, 177.	2.9	68
30	Resource saving by optimization and machining environments for sustainable manufacturing: A review and future prospects. Renewable and Sustainable Energy Reviews, 2022, 166, 112660.	16.4	68
31	Effect of the Relative Position of the Face Milling Tool towards the Workpiece on Machined Surface Roughness and Milling Dynamics. Applied Sciences (Switzerland), 2019, 9, 842.	2.5	62
32	Using artificial intelligence models for the prediction of surface wear based on surface isotropy levels. Robotics and Computer-Integrated Manufacturing, 2018, 53, 215-227.	9.9	61
33	Investigations of surface quality and energy consumption associated with costs and material removal rate during face milling of AISI 1045 steel. International Journal of Advanced Manufacturing Technology, 2020, 107, 3511-3525.	3.0	58
34	Machine-learning for automatic prediction of flatness deviation considering the wear of the face mill teeth. Journal of Intelligent Manufacturing, 2021, 32, 895-912.	7.3	58
35	The Effects of MQL and Dry Environments on Tool Wear, Cutting Temperature, and Power Consumption during End Milling of AISI 1040 Steel. Metals, 2021, 11, 1674.	2.3	58
36	A state-of-the-art review on sensors and signal processing systems in mechanical machining processes. International Journal of Advanced Manufacturing Technology, 2021, 116, 2711-2735.	3.0	56

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37	ANN Surface Roughness Optimization of AZ61 Magnesium Alloy Finish Turning: Minimum Machining Times at Prime Machining Costs. Materials, 2018, 11, 808.	2.9	55
38	A review on conventional and advanced minimum quantity lubrication approaches on performance measures of grinding process. International Journal of Advanced Manufacturing Technology, 2021, 117, 729-750.	3.0	55
39	Tool wear, surface roughness, cutting temperature and chips morphology evaluation of Al/TiN coated carbide cutting tools in milling of Cuâ€"Bâ€"CrC based ceramic matrix composites. Journal of Materials Research and Technology, 2022, 16, 1243-1259.	5.8	55
40	Empirical Investigations during WEDM of Ni-27Cu-3.15Al-2Fe-1.5Mn Based Superalloy for High Temperature Corrosion Resistance Applications. Materials, 2020, 13, 3470.	2.9	54
41	Microstructure and machinability evaluation in micro milling of selective laser melted Inconel 718 alloy. Journal of Materials Research and Technology, 2021, 14, 348-362.	5.8	52
42	Modeling flatness deviation in face milling considering angular movement of the machine tool system components and tool flank wear. Precision Engineering, 2018, 54, 327-337.	3.4	50
43	Tribological performance based machinability investigations in cryogenic cooling assisted turning of Î±-Î² titanium Alloy. Tribology International, 2021, 160, 107032.	5.9	49
44	Artificial Intelligence-Based Hole Quality Prediction in Micro-Drilling Using Multiple Sensors. Sensors, 2020, 20, 885.	3.8	48
45	Influences of TiAlN coating and limiting angles of flutes on prediction of cutting forces and dynamic stability in micro milling of die steel (P-20). Journal of Materials Processing Technology, 2020, 278, 116500.	6.3	47
46	Optimization of cutting conditions using artificial neural networks and the Edgeworth-Pareto method for CNC face-milling operations on high-strength grade-H steel. International Journal of Advanced Manufacturing Technology, 2019, 105, 2151-2165.	3.0	46
47	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.	5.8	46
48	Effect of mixing method and particle size on hardness and compressive strength of aluminium based metal matrix composite prepared through powder metallurgy route. Journal of Materials Research and Technology, 2022, 18, 282-292.	5.8	46
49	Artificial Intelligence Monitoring of Hardening Methods and Cutting Conditions and Their Effects on Surface Roughness, Performance, and Finish Turning Costs of Solid-State Recycled Aluminum Alloy 6061 Ð¡hips. Metals, 2018, 8, 394.	2.3	45
50	Application of measurement systems in tool condition monitoring of Milling: A review of measurement science approach. Measurement: Journal of the International Measurement Confederation, 2022, 199, 111503.	5.0	44
51	Minimization of turning time for high-strength steel with a given surface roughness using the Edgeworthâ€"Pareto optimization method. International Journal of Advanced Manufacturing Technology, 2017, 93, 2375-2392.	3.0	41
52	Evaluation of Cutting-Tool Coating on the Surface Roughness and Hole Dimensional Tolerances during Drilling of Al6061-T651 Alloy. Materials, 2021, 14, 1783.	2.9	41
53	Tribological Aspects, Optimization and Analysis of Cu-B-CrC Composites Fabricated by Powder Metallurgy. Materials, 2021, 14, 4217.	2.9	41
54	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.	5.8	41

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55	Improving the accuracy of machine-learning models with data from machine test repetitions. Journal of Intelligent Manufacturing, 2022, 33, 203-221.	7.3	40
56	Parametric Optimization for Improving the Machining Process of Cu/Mo-SiCP Composites Produced by Powder Metallurgy. Materials, 2021, 14, 1921.	2.9	40
57	Analysis of Sensitization in Austenitic Stainless Steel-Welded Joint. Lecture Notes in Mechanical Engineering, 2021, , 13-23.	0.4	40
58	Investigations on quality characteristics in gas tungsten arc welding process using artificial neural network integrated with genetic algorithm. International Journal of Advanced Manufacturing Technology, 2021, 113, 3569-3583.	3.0	39
59	Prioritizing Energy-Intensive Machining Operations and Gauging the Influence of Electric Parameters: An Industrial Case Study. Energies, 2021, 14, 4761.	3.1	39
60	Investigation on microstructure, mechanical, and tribological performance of Cu base hybrid composite materials. Journal of Materials Research and Technology, 2021, 15, 6990-7003.	5.8	39
61	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.	3.0	39
62	An Innovative Agile Model of Smart Leanâ€"Green Approach for Sustainability Enhancement in Industry 4.0. Journal of Open Innovation: Technology, Market, and Complexity, 2021, 7, 215.	5.2	37
63	Mathematical model of plowing forces to account for flank wear using FME modeling for orthogonal cutting scheme. International Journal of Advanced Manufacturing Technology, 2017, 89, 3149-3159.	3.0	36
64	Effect of Feed Rate in FSW on the Mechanical and Microstructural Properties of AA5754 Joints. Advances in Materials Science and Engineering, 2019, 2019, 1-12.	1.8	36
65	Cutting force in face milling with tool wear. Russian Engineering Research, 2011, 31, 989-993.	0.6	35
66	Application of Type-2 Fuzzy AHP-ARAS for Selecting Optimal WEDM Parameters. Metals, 2021, 11, 42.	2.3	35
67	Investigation of the Effects of Cooling and Lubricating Strategies on Tribological Characteristics in Machining of Hybrid Composites. Lubricants, 2022, 10, 63.	2.9	35
68	Integration of Fuzzy AHP and Fuzzy TOPSIS Methods for Wire Electric Discharge Machining of Titanium (Ti6Al4V) Alloy Using RSM. Materials, 2021, 14, 7408.	2.9	35
69	Effect of ball-milling process parameters on mechanical properties of Al/Al2O3/collagen powder composite using statistical approach. Journal of Materials Research and Technology, 2021, 15, 2918-2932.	5.8	34
70	Experimental investigation and optimization of compression moulding parameters for MWCNT/glass/kevlar/epoxy composites on mechanical and tribological properties. Journal of Materials Research and Technology, 2021, 15, 327-341.	5.8	32
71	Performance of MQL and Nano-MQL Lubrication in Machining ER7 Steel for Train Wheel Applications. Lubricants, 2022, 10, 48.	2.9	32
72	Experimental Investigation of Effect of Fiber Length on Mechanical, Wear, and Morphological Behavior of Silane-Treated Pineapple Leaf Fiber Reinforced Polymer Composites. Fibers, 2022, 10, 56.	4.0	32

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73	Performance Assessment of Minimum Quantity Castor-Palm Oil Mixtures in Hard-Milling Operation. Materials, 2021, 14, 198.	2.9	31
74	Between-the-Holes Cryogenic Cooling of the Tool in Hole-Making of Ti-6Al-4V and CFRP. Materials, 2021, 14, 795.	2.9	31
75	Estimation, optimization and analysis based investigation of the energy consumption in machinability of ceramic-based metal matrix composite materials. Journal of Materials Research and Technology, 2022, 17, 2987-2998.	5.8	31
76	Study of a Multicriterion Decision-Making Approach to the MQL Turning of AISI 304 Steel Using Hybrid Nanocutting Fluid. Materials, 2021, 14, 7207.	2.9	30
77	Indirect monitoring of machining characteristics via advanced sensor systems: a critical review. International Journal of Advanced Manufacturing Technology, 2022, 120, 7043-7078.	3.0	30
78	Recent Advances in Bipedal Walking Robots: Review of Gait, Drive, Sensors and Control Systems. Sensors, 2022, 22, 4440.	3.8	30
79	The effects of through tool cryogenic machining on the hole quality in GLAREÂ® fibre metal laminates. Journal of Manufacturing Processes, 2021, 64, 996-1012.	5.9	29
80	Optimization of Activated Tungsten Inert Gas Welding Process Parameters Using Heat Transfer Search Algorithm: With Experimental Validation Using Case Studies. Metals, 2021, 11, 981.	2.3	29
81	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.	5.8	29
82	Experimental research of face mill wear effect to flat surface roughness. Journal of Friction and Wear, 2014, 35, 250-254.	0.5	28
83	A study of the influence of processing parameters and tool wear on elastic displacements of the technological system under face milling. International Journal of Advanced Manufacturing Technology, 2017, 92, 4473-4486.	3.0	28
84	The effect of cryogenic machining of S2 glass fibre composite on the hole form and dimensional tolerances. International Journal of Advanced Manufacturing Technology, 2021, 115, 125-140.	3.0	28
85	Experimental Investigations and Pareto Optimization of Fiber Laser Cutting Process of Ti6Al4V. Metals, 2021, 11, 1461.	2.3	28
86	Influence of Variable Radius of Cutting Head Trajectory on Quality of Cutting Kerf in the Abrasive Water Jet Process for Sodaâ€"Lime Glass. Materials, 2020, 13, 4277.	2.9	28
87	Prediction of Surface Roughness Using Machine Learning Approach in MQL Turning of AISI 304 Steel by Varying Nanoparticle Size in the Cutting Fluid. Lubricants, 2022, 10, 81.	2.9	28
88	A Comparative Study to Predict Bearing Degradation Using Discrete Wavelet Transform (DWT), Tabular Generative Adversarial Networks (TGAN) and Machine Learning Models. Machines, 2022, 10, 176.	2.2	27
89	A grinding force model allowing for dulling of abrasive wheel cutting grains in plunge cylindrical grinding. Journal of Friction and Wear, 2016, 37, 60-65.	0.5	26
90	A regression-tree multilayer-perceptron hybrid strategy for the prediction of ore crushing-plate lifetimes. Journal of Advanced Research, 2019, 18, 173-184.	9.5	26

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91	Effect of Tool Coating and Cutting Parameters on Surface Roughness and Burr Formation during Micromilling of Inconel 718. Metals, 2021, 11, 167.	2.3	26
92	Electrodeposition Based Preparation of Znâ€"Ni Alloy and Znâ€"Niâ€"WC Nano-Composite Coatings for Corrosion-Resistant Applications. Coatings, 2021, 11, 712.	2.6	26
93	Corrosion Behaviour of High-Strength Al 7005 Alloy and Its Composites Reinforced with Industrial Waste-Based Fly Ash and Glass Fibre: Comparison of Stir Cast and Extrusion Conditions. Materials, 2021, 14, 3929.	2.9	26
94	Experimental investigations and prediction of WEDMed surface of nitinol SMA using SinGAN andÂDenseNet deep learning model. Journal of Materials Research and Technology, 2022, 18, 325-337.	5.8	26
95	Influence of structure isotropy of machined surface on the wear process. International Journal of Advanced Manufacturing Technology, 2017, 88, 2477-2483.	3.0	25
96	Parametric Optimization for Cutting Forces and Material Removal Rate in the Turning of AISI 5140. Machines, 2021, 9, 90.	2.2	25
97	Measurement of Micro Burr and Slot Widths through Image Processing: Comparison of Manual and Automated Measurements in Micro-Milling. Sensors, 2021, 21, 4432.	3.8	25
98	Tribological and surface morphological characteristics of titanium alloys: a review. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	3.8	25
99	An Agile System to Enhance Productivity through a Modified Value Stream Mapping Approach in Industry 4.0: A Novel Approach. Sustainability, 2021, 13, 11997.	3.2	24
100	Sustainability Assessment, Investigations, and Modelling of Slot Milling Characteristics in Eco-Benign Machining of Hardened Steel. Metals, 2020, 10, 1650.	2.3	22
101	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.	5.9	22
102	Experimental investigation of selective laser melting parameters for higher surface quality and microhardness properties: taguchi and super ranking concept approaches. Journal of Materials Research and Technology, 2021, 14, 2586-2600.	5.8	22
103	Effect of tensile strain rate on high-temperature deformation and fracture of rolled Al-15â€¯vol% B4C composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 749, 129-136.	5.6	21
104	Optimization of Process Control Parameters for WEDM of Al-LM25/Fly Ash/B4C Hybrid Composites Using Evolutionary Algorithms: A Comparative Study. Metals, 2021, 11, 1105.	2.3	21
105	Multi-Response Optimization of Al2O3 Nanopowder-Mixed Wire Electrical Discharge Machining Process Parameters of Nitinol Shape Memory Alloy. Materials, 2022, 15, 2018.	2.9	21
106	Information Safety Process Development According to ISÐž 27001 for an Industrial Enterprise. Procedia Manufacturing, 2019, 32, 278-285.	1.9	20
107	Synthesis and characterization of mechanically alloyed nanostructured ternary titanium based alloy for bio-medical applications. Journal of Materials Research and Technology, 2022, 16, 88-101.	5.8	20
108	In Situ Micro-Observation of Surface Roughness and Fracture Mechanism in Metal Microforming of Thin Copper Sheets with Newly Developed Compact Testing Apparatus. Materials, 2022, 15, 1368.	2.9	20

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109	Optimization of Bead Morphology for GMAW-Based Wire-Arc Additive Manufacturing of 2.25 Cr-1.0 Mo Steel Using Metal-Cored Wires. Applied Sciences (Switzerland), 2022, 12, 5060.	2.5	20
110	The effect of the rate flank wear teeth face mills on the processing. Journal of Friction and Wear, 2013, 34, 156-159.	0.5	19
111	Analysis of Hole Quality and Chips Formation in the Dry Drilling Process of Al7075-T6. Metals, 2021, 11, 891.	2.3	19
112	Microstructure, Mechanical, and Corrosion Behavior of Al2O3 Reinforced Mg2Zn Matrix Magnesium Composites. Materials, 2021, 14, 4819.	2.9	19
113	Image Processing of Mg-Al-Sn Alloy Microstructures for Determining Phase Ratios and Grain Size and Correction with Manual Measurement. Materials, 2021, 14, 5095.	2.9	19
114	A Soft Computing-Based Analysis of Cutting Rate and Recast Layer Thickness for AZ31 Alloy on WEDM Using RSM-MOPSO. Materials, 2022, 15, 635.	2.9	19
115	Influence of cutting conditions on the stress at toolâ€™s rear surface. Russian Engineering Research, 2011, 31, 1151-1155.	0.6	18
116	Effect of Cutting Parameters and Tool Geometry on the Performance Analysis of One-Shot Drilling Process of AA2024-T3. Metals, 2021, 11, 854.	2.3	18
117	Surface Roughness Evaluation in Thin EN AW-6086-T6 Alloy Plates after Face Milling Process with Different Strategies. Materials, 2021, 14, 3036.	2.9	18
118	Optimization and Modeling of Material Removal Rate in Wire-EDM of Silicon Particle Reinforced Al6061 Composite. Materials, 2021, 14, 6420.	2.9	18
119	Optimization of control programs for numerically controlled machine tools by dynamic programming. Russian Engineering Research, 2015, 35, 135-142.	0.6	17
120	Experimental Studies on MoS2-Treated Grinding Wheel Active Surface Condition after High-Efficiency Internal Cylindrical Grinding Process of INCONELÂ® Alloy 718. Micromachines, 2019, 10, 255.	2.9	17
121	Extrusion-Based 3D Printing of Ceramic Pastes: Mathematical Modeling and In Situ Shaping Retention Approach. Materials, 2021, 14, 1137.	2.9	17
122	Experimental investigation on the effect of dry and multi-jet cryogenic cooling on the machinability and hole accuracy of CFRP composites. Journal of Materials Research and Technology, 2022, 18, 1772-1783.	5.8	17
123	Microstructure and Properties of Heat Affected Zone in High-Carbon Steel after Welding with Fast Cooling in Water. Materials, 2020, 13, 5059.	2.9	16
124	Effect of Cryogenic Grinding on Fatigue Life of Additively Manufactured Maraging Steel. Materials, 2021, 14, 1245.	2.9	16
125	Prediction of Tool Shape in Electrical Discharge Machining of EN31 Steel Using Machine Learning Techniques. Metals, 2021, 11, 1668.	2.3	16
126	Relation between the cutting force in internal grinding and the elastic deformation of the technological system. Russian Engineering Research, 2015, 35, 215-217.	0.6	15

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127	The Effect of Zn and Znâ€"WO3 Composites Nano-Coatings Deposition on Hardness and Corrosion Resistance in Steel Substrate. Materials, 2021, 14, 2253.	2.9	15
128	Mathematical modeling of power spent in face milling taking into consideration tool wear. Journal of Friction and Wear, 2015, 36, 45-48.	0.5	14
129	Cubic Lattice Structures of Ti6Al4V under Compressive Loading: Towards Assessing the Performance for Hard Tissue Implants Alternative. Materials, 2021, 14, 3866.	2.9	14
130	Experimental investigation on welding of 2.25 Cr-1.0 Mo steel with regulated metal deposition and GMAW technique incorporating metal-cored wires. Journal of Materials Research and Technology, 2021, 15, 1007-1016.	5.8	14
131	Effectiveness Improvement in Manufacturing Industry; Trilogy Study and Open Innovation Dynamics. Journal of Open Innovation: Technology, Market, and Complexity, 2021, 7, 7.	5.2	14
132	Modeling and analysis of temperature distribution in the multilayer metal composite structures in grinding. International Journal of Advanced Manufacturing Technology, 2017, 91, 4055-4068.	3.0	13
133	Wear of a Flexible Abrasive Tool. Journal of Friction and Wear, 2019, 40, 139-145.	0.5	13
134	Sustainable Manufacturing and Parametric Analysis of Mild Steel Grade 60 by Deploying CNC Milling Machine and Taguchi Method. Metals, 2020, 10, 1303.	2.3	13
135	Effect of Seawater Ageing on Fracture Toughness of Stitched Glass Fiber/Epoxy Laminates for Marine Applications. Journal of Marine Science and Engineering, 2021, 9, 196.	2.6	13
136	Optimization Study on Surface Roughness and Tribological Behavior of Recycled Cast Iron Reinforced Bronze MMCs Produced by Hot Pressing. Materials, 2021, 14, 3364.	2.9	13
137	Automation of Production Activities of an Industrial Enterprise based on the ERP System. Procedia Manufacturing, 2020, 46, 525-532.	1.9	13
138	Numerical Investigation of Microchannel Heat Sink with Trefoil Shape Ribs. Energies, 2021, 14, 6764.	3.1	13
139	Effect of Fibre Orientation on Impact Damage Resistance of S2/FM94 Glass Fibre Composites for Aerospace Applications: An Experimental Evaluation and Numerical Validation. Polymers, 2022, 14, 95.	4.5	13
140	Geometric model of height of microroughness on machined surface taking into account wear of face mill teeth. Journal of Friction and Wear, 2013, 34, 290-293.	0.5	12
141	Stress Analysis of a Three-Layer Metal Composite System of Bearing Assemblies During Grinding. Mechanics of Composite Materials, 2015, 51, 77-92.	1.4	12
142	Using CAD CAM system for manufacturing of innovative cutting tool. Procedia Manufacturing, 2018, 22, 160-165.	1.9	12
143	Hand and Abrasive Flow Polished Tungsten Carbide Die: Optimization of Surface Roughness, Polishing Time and Comparative Analysis in Wire Drawing. Materials, 2022, 15, 1287.	2.9	12
144	Evaluation of the Mechanical Properties and Drilling of Glass Bead/Fiber-Reinforced Polyamide 66 (PA66)-Based Hybrid Polymer Composites. Materials, 2022, 15, 2765.	2.9	12

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145	Investigation of machinability of Tiâ€"B-SiCp reinforced Cu hybrid composites in dry turning. Journal of Materials Research and Technology, 2022, 18, 1474-1487.	5.8	12
146	Evaluation of Mechanical and Tribological Aspect of Self-Lubricating Cu-6Gr Composites Reinforced with SiCâ€"WC Hybrid Particles. Nanomaterials, 2022, 12, 2154.	4.1	12
147	Parametric Optimization and Influence of Near-Dry WEDM Variables on Nitinol Shape Memory Alloy. Micromachines, 2022, 13, 1026.	2.9	12
148	Elastic displacement of a technological system in face milling with tool wear. Russian Engineering Research, 2011, 31, 1105-1109.	0.6	11
149	Analysis of the Deviation in a Low-Cost System for Stepless Digital Control of Conventional Lathe Spindle Speeds. Applied Sciences (Switzerland), 2019, 9, 12.	2.5	11
150	Prediction of Transient Temperature Distributions for Laser Welding of Dissimilar Metals. Applied Sciences (Switzerland), 2021, 11, 5829.	2.5	11
151	Assessment of the Technological Quality of X5CRNI18-10 Steel Parts after Laser and Abrasive Water Jet Cutting Using Synthetic Index of Technological Quality. Materials, 2021, 14, 4801.	2.9	11
152	Towards Analysis and Optimization for Contact Zone Temperature Changes and Specific Wear Rate of Metal Matrix Composite Materials Produced from Recycled Waste. Materials, 2021, 14, 5145.	2.9	11
153	Corrosion Resistance and Surface Bioactivity of Ti6Al4V Alloy after Finish Turning under Ecological Cutting Conditions. Materials, 2021, 14, 6917.	2.9	11
154	Enhancement of micro milling performance by abrasion-resistant coated tools with optimized thin-film thickness: analytical and experimental characterization. International Journal of Advanced Manufacturing Technology, 2022, 120, 2993-3015.	3.0	11
155	Obtaining Various Shapes of Machined Surface Using a Tool with a Multi-Insert Cutting Edge. Applied Sciences (Switzerland), 2019, 9, 880.	2.5	10
156	Development and Testing of a High-Frequency Dynamometer for High-Speed Milling Process. Machines, 2021, 9, 11.	2.2	9
157	Effects of calcium-treatment of a plastic injection mold steel on the tool wear and power consumption in slot milling. Journal of Materials Research and Technology, 2021, 13, 1103-1114.	5.8	9
158	Modelling and Analysis of Surface Evolution on Turning of Hard-to-Cut CLARM 30NiCrMoV14 Steel Alloy. Metals, 2021, 11, 1751.	2.3	9
159	Analysis and Optimization of Dimensional Accuracy and Porosity of High Impact Polystyrene Material Printed by FDM Process: PSO, JAYA, Rao, and Bald Eagle Search Algorithms. Materials, 2021, 14, 7479.	2.9	9
160	Deployment of Interpretive Structural Modeling in Barriers to Industry 4.0: A Case of Small and Medium Enterprises. Journal of Risk and Financial Management, 2022, 15, 171.	2.3	9
161	Quality Assessment of Emery Cloth-based Abrasive Tool Using Elasticity Technological Parameter. Procedia Engineering, 2017, 206, 1155-1160.	1.2	8
162	Energy-Based Novel Quantifiable Sustainability Value Assessment Method for Machining Processes. Energies, 2020, 13, 6144.	3.1	8

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163	High-Accuracy 3D Optical Profilometry for Analysis of Surface Condition of Modern Circulated Coins. Materials, 2020, 13, 5371.	2.9	8
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