

Danil Yurievich Pimenov

List of Publications by Year in descending order

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204
papers

6,804
citations

57631

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98622

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g-index

206
all docs

206
docs citations

206
times ranked

2646
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence systems for tool condition monitoring in machining: analysis and critical review. <i>Journal of Intelligent Manufacturing</i> , 2023, 34, 2079-2121.	4.4	90
2	Improving the accuracy of machine-learning models with data from machine test repetitions. <i>Journal of Intelligent Manufacturing</i> , 2022, 33, 203-221.	4.4	40
3	Synthesis and characterization of mechanically alloyed nanostructured ternary titanium based alloy for bio-medical applications. <i>Journal of Materials Research and Technology</i> , 2022, 16, 88-101.	2.6	20
4	A short review on thermal treatments of Titanium & Nickel based alloys processed by selective laser melting. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1090-1101.	2.6	29
5	Tool wear, surface roughness, cutting temperature and chips morphology evaluation of Al/TiN coated carbide cutting tools in milling of Cu&CrC based ceramic matrix composites. <i>Journal of Materials Research and Technology</i> , 2022, 16, 1243-1259.	2.6	55
6	A Soft Computing-Based Analysis of Cutting Rate and Recast Layer Thickness for AZ31 Alloy on WEDM Using RSM-MOPSO. <i>Materials</i> , 2022, 15, 635.	1.3	19
7	Hand and Abrasive Flow Polished Tungsten Carbide Die: Optimization of Surface Roughness, Polishing Time and Comparative Analysis in Wire Drawing. <i>Materials</i> , 2022, 15, 1287.	1.3	12
8	In Situ Micro-Observation of Surface Roughness and Fracture Mechanism in Metal Microforming of Thin Copper Sheets with Newly Developed Compact Testing Apparatus. <i>Materials</i> , 2022, 15, 1368.	1.3	20
9	Enhancement of micro milling performance by abrasion-resistant coated tools with optimized thin-film thickness: analytical and experimental characterization. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 2993-3015.	1.5	11
10	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
11	Development of an Oxide Layer on Al 6061 Using Plasma Arc Electrolytic Oxidation in Silicate-Based Electrolyte. <i>Materials</i> , 2022, 15, 1616.	1.3	2
12	Multi-Response Optimization of Al ₂ O ₃ Nanopowder-Mixed Wire Electrical Discharge Machining Process Parameters of Nitinol Shape Memory Alloy. <i>Materials</i> , 2022, 15, 2018.	1.3	21
13	Estimation, optimization and analysis based investigation of the energy consumption in machinability of ceramic-based metal matrix composite materials. <i>Journal of Materials Research and Technology</i> , 2022, 17, 2987-2998.	2.6	31
14	Performance of MQL and Nano-MQL Lubrication in Machining ER7 Steel for Train Wheel Applications. <i>Lubricants</i> , 2022, 10, 48.	1.2	32
15	Deployment of Interpretive Structural Modeling in Barriers to Industry 4.0: A Case of Small and Medium Enterprises. <i>Journal of Risk and Financial Management</i> , 2022, 15, 171.	1.1	9
16	Evaluation of the Mechanical Properties and Drilling of Glass Bead/Fiber-Reinforced Polyamide 66 (PA66)-Based Hybrid Polymer Composites. <i>Materials</i> , 2022, 15, 2765.	1.3	12
17	Investigation of the Effects of Cooling and Lubricating Strategies on Tribological Characteristics in Machining of Hybrid Composites. <i>Lubricants</i> , 2022, 10, 63.	1.2	35
18	Effect of mixing method and particle size on hardness and compressive strength of aluminium based metal matrix composite prepared through powder metallurgy route. <i>Journal of Materials Research and Technology</i> , 2022, 18, 282-292.	2.6	46

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19	Experimental investigations and prediction of WEDMed surface of nitinol SMA using SinGAN and DenseNet deep learning model. <i>Journal of Materials Research and Technology</i> , 2022, 18, 325-337.	2.6	26
20	Investigation of machinability of Ti-B-SiCp reinforced Cu hybrid composites in dry turning. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1474-1487.	2.6	12
21	Experimental investigation on the effect of dry and multi-jet cryogenic cooling on the machinability and hole accuracy of CFRP composites. <i>Journal of Materials Research and Technology</i> , 2022, 18, 1772-1783.	2.6	17
22	Effect of Fibre Orientation on Impact Damage Resistance of S2/FM94 Glass Fibre Composites for Aerospace Applications: An Experimental Evaluation and Numerical Validation. <i>Polymers</i> , 2022, 14, 95.	2.0	13
23	Mechanistic modeling of cutting forces in high-speed microturning of titanium alloy with consideration of nose radius. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 2393-2408.	1.5	4
24	Tribological and surface morphological characteristics of titanium alloys: a review. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	1.9	25
25	Coaxiality error analysis and optimization of cylindrical parts of CNC turning process. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 6617-6634.	1.5	7
26	One Factor at a Time Analysis to Modify Potting Technique for Manufacturing of Bubble-Free High-Voltage Polyester Insulated Automotive Coils. <i>Designs</i> , 2022, 6, 44.	1.3	2
27	Prediction of Surface Roughness Using Machine Learning Approach in MQL Turning of AISI 304 Steel by Varying Nanoparticle Size in the Cutting Fluid. <i>Lubricants</i> , 2022, 10, 81.	1.2	28
28	Indirect monitoring of machining characteristics via advanced sensor systems: a critical review. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 7043-7078.	1.5	30
29	Tool wear prediction in face milling of stainless steel using singular generative adversarial network and LSTM deep learning models. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 121, 723-736.	1.5	39
30	Machining parameter optimization and experimental investigations of nano-graphene mixed electrical discharge machining of nitinol shape memory alloy. <i>Journal of Materials Research and Technology</i> , 2022, 19, 653-668.	2.6	41
31	Optimization of Bead Morphology for GMAW-Based Wire-Arc Additive Manufacturing of 2.25 Cr-1.0 Mo Steel Using Metal-Cored Wires. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5060.	1.3	20
32	Evaluation of Mechanical and Tribological Aspect of Self-Lubricating Cu-6Gr Composites Reinforced with SiC-WC Hybrid Particles. <i>Nanomaterials</i> , 2022, 12, 2154.	1.9	12
33	Recent Advances in Bipedal Walking Robots: Review of Gait, Drive, Sensors and Control Systems. <i>Sensors</i> , 2022, 22, 4440.	2.1	30
34	Application of measurement systems in tool condition monitoring of Milling: A review of measurement science approach. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 199, 111503.	2.5	44
35	Assessment of Hole Quality, Thermal Analysis, and Chip Formation during Dry Drilling Process of Gray Cast Iron ASTM A48. <i>Eng.</i> , 2022, 3, 301-310.	1.2	1
36	Experimental Investigation of Effect of Fiber Length on Mechanical, Wear, and Morphological Behavior of Silane-Treated Pineapple Leaf Fiber Reinforced Polymer Composites. <i>Fibers</i> , 2022, 10, 56.	1.8	32

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37	Parametric Optimization and Influence of Near-Dry WEDM Variables on Nitinol Shape Memory Alloy. <i>Micromachines</i> , 2022, 13, 1026.	1.4	12
38	Resource saving by optimization and machining environments for sustainable manufacturing: A review and future prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112660.	8.2	68
39	Environment and economic burden of sustainable cooling/lubrication methods in machining of Inconel-800. <i>Journal of Cleaner Production</i> , 2021, 287, 125074.	4.6	77
40	Sustainable milling of Ti-6Al-4V: A trade-off between energy efficiency, carbon emissions and machining characteristics under MQL and cryogenic environment. <i>Journal of Cleaner Production</i> , 2021, 281, 125374.	4.6	95
41	Machine-learning for automatic prediction of flatness deviation considering the wear of the face mill teeth. <i>Journal of Intelligent Manufacturing</i> , 2021, 32, 895-912.	4.4	58
42	Effect of Tool Coating and Cutting Parameters on Surface Roughness and Burr Formation during Micromilling of Inconel 718. <i>Metals</i> , 2021, 11, 167.	1.0	26
43	Subtractive Manufacturing of Different Composites. <i>Springer Series in Advanced Manufacturing</i> , 2021, , 137-165.	0.2	0
44	Performance Assessment of Minimum Quantity Castor-Palm Oil Mixtures in Hard-Milling Operation. <i>Materials</i> , 2021, 14, 198.	1.3	31
45	Development and Testing of a High-Frequency Dynamometer for High-Speed Milling Process. <i>Machines</i> , 2021, 9, 11.	1.2	9
46	Between-the-Holes Cryogenic Cooling of the Tool in Hole-Making of Ti-6Al-4V and CFRP. <i>Materials</i> , 2021, 14, 795.	1.3	31
47	Operational Wear Resistance of a Grinding Belt. <i>Russian Engineering Research</i> , 2021, 41, 157-161.	0.2	5
48	An Ultrasonic-Based Detection of Air-Leakage for the Unclosed Components of Aircraft. <i>Aerospace</i> , 2021, 8, 55.	1.1	3
49	Extrusion-Based 3D Printing of Ceramic Pastes: Mathematical Modeling and In Situ Shaping Retention Approach. <i>Materials</i> , 2021, 14, 1137.	1.3	17
50	Cooling techniques to improve the machinability and sustainability of light-weight alloys: A state-of-the-art review. <i>Journal of Manufacturing Processes</i> , 2021, 62, 179-201.	2.8	98
51	Effect of Seawater Ageing on Fracture Toughness of Stitched Glass Fiber/Epoxy Laminates for Marine Applications. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 196.	1.2	13
52	Effect of Cryogenic Grinding on Fatigue Life of Additively Manufactured Maraging Steel. <i>Materials</i> , 2021, 14, 1245.	1.3	16
53	Investigations on quality characteristics in gas tungsten arc welding process using artificial neural network integrated with genetic algorithm. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 3569-3583.	1.5	39
54	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. <i>Metals</i> , 2021, 11, 419.	1.0	70

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55	Improvement of machinability of Ti and its alloys using cooling-lubrication techniques: a review and future prospect. <i>Journal of Materials Research and Technology</i> , 2021, 11, 719-753.	2.6	154
56	Establishing the Relationship between Cutting Speed and Output Parameters in Belt Grinding on Steels, Aluminum and Nickel Alloys: Development of Recommendations. <i>Materials</i> , 2021, 14, 1974.	1.3	5
57	The effects of through tool cryogenic machining on the hole quality in GLARE [®] fibre metal laminates. <i>Journal of Manufacturing Processes</i> , 2021, 64, 996-1012.	2.8	29
58	Hybrid Model for Calculating Quality Costs. <i>Russian Engineering Research</i> , 2021, 41, 382-386.	0.2	4
59	Evaluation of Cutting-Tool Coating on the Surface Roughness and Hole Dimensional Tolerances during Drilling of Al6061-T651 Alloy. <i>Materials</i> , 2021, 14, 1783.	1.3	41
60	Value Stream Maps in Clock Production. <i>Russian Engineering Research</i> , 2021, 41, 378-381.	0.2	5
61	Parametric Optimization for Cutting Forces and Material Removal Rate in the Turning of AISI 5140. <i>Machines</i> , 2021, 9, 90.	1.2	25
62	The Effect of Zn and Zn ^o WO ₃ Composites Nano-Coatings Deposition on Hardness and Corrosion Resistance in Steel Substrate. <i>Materials</i> , 2021, 14, 2253.	1.3	15
63	Parametric Optimization for Improving the Machining Process of Cu/Mo-SiCP Composites Produced by Powder Metallurgy. <i>Materials</i> , 2021, 14, 1921.	1.3	40
64	Rice straw burning: a review on its global prevalence and the sustainable alternatives for its effective mitigation. <i>Environmental Science and Pollution Research</i> , 2021, 28, 32125-32155.	2.7	71
65	Effect of Cutting Parameters and Tool Geometry on the Performance Analysis of One-Shot Drilling Process of AA2024-T3. <i>Metals</i> , 2021, 11, 854.	1.0	18
66	Investigation on mechanical, tribological and microstructural properties of Al ^o Mg ^o Si ^o T6/SiC/muscovite-hybrid metal-matrix composites for high strength applications. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1564-1581.	2.6	84
67	The effect of cryogenic machining of S2 glass fibre composite on the hole form and dimensional tolerances. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 125-140.	1.5	28
68	Analysis of Hole Quality and Chips Formation in the Dry Drilling Process of Al7075-T6. <i>Metals</i> , 2021, 11, 891.	1.0	19
69	Measurement of Micro Burr and Slot Widths through Image Processing: Comparison of Manual and Automated Measurements in Micro-Milling. <i>Sensors</i> , 2021, 21, 4432.	2.1	25
70	Electrodeposition Based Preparation of Zn ^o Ni Alloy and Zn ^o Ni ^o WC Nano-Composite Coatings for Corrosion-Resistant Applications. <i>Coatings</i> , 2021, 11, 712.	1.2	26
71	Optimization Study on Surface Roughness and Tribological Behavior of Recycled Cast Iron Reinforced Bronze MMCs Produced by Hot Pressing. <i>Materials</i> , 2021, 14, 3364.	1.3	13
72	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

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73	Prediction of Transient Temperature Distributions for Laser Welding of Dissimilar Metals. Applied Sciences (Switzerland), 2021, 11, 5829.	1.3	11
74	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
75	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.	1.5	56
76	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.	1.0	21
77	Tribological Aspects, Optimization and Analysis of Cu-B-CrC Composites Fabricated by Powder Metallurgy. Materials, 2021, 14, 4217.	1.3	41
78	Cubic Lattice Structures of Ti6Al4V under Compressive Loading: Towards Assessing the Performance for Hard Tissue Implants Alternative. Materials, 2021, 14, 3866.	1.3	14
79	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.	1.3	26
80	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.	2.6	9
81	Tribological performance based machinability investigations in cryogenic cooling assisted turning of $\hat{1}\pm\hat{1}^2$ titanium Alloy. Tribology International, 2021, 160, 107032.	3.0	49
82	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.	1.3	11
83	Microstructure, Mechanical, and Corrosion Behavior of Al ₂ O ₃ Reinforced Mg ₂ Zn Matrix Magnesium Composites. Materials, 2021, 14, 4819.	1.3	19
84	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.	1.5	55
85	Prioritizing Energy-Intensive Machining Operations and Gauging the Influence of Electric Parameters: An Industrial Case Study. Energies, 2021, 14, 4761.	1.6	39
86	Managing Risks in the Improved Model of Rolling Mill Loading: A Case Study. Journal of Risk and Financial Management, 2021, 14, 359.	1.1	3
87	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
88	Relationship between Pressure and Output Parameters in Belt Grinding of Steels and Nickel Alloy. Materials, 2021, 14, 4704.	1.3	4
89	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.	2.6	22
90	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.	1.3	11

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91	Microstructure and machinability evaluation in micro milling of selective laser melted Inconel 718 alloy. <i>Journal of Materials Research and Technology</i> , 2021, 14, 348-362.	2.6	52
92	Experimental Investigations and Pareto Optimization of Fiber Laser Cutting Process of Ti6Al4V. <i>Metals</i> , 2021, 11, 1461.	1.0	28
93	Effect of ball-milling process parameters on mechanical properties of Al/Al ₂ O ₃ /collagen powder composite using statistical approach. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2918-2932.	2.6	34
94	Image Processing of Mg-Al-Sn Alloy Microstructures for Determining Phase Ratios and Grain Size and Correction with Manual Measurement. <i>Materials</i> , 2021, 14, 5095.	1.3	19
95	Experimental investigations and optimization of MWCNTs-mixed WEDM process parameters of nitinol shape memory alloy. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2152-2169.	2.6	46
96	Experimental investigation on welding of 2.25 Cr-1.0 Mo steel with regulated metal deposition and GMAW technique incorporating metal-cored wires. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1007-1016.	2.6	14
97	A state-of-the-art review on tool wear and surface integrity characteristics in machining of superalloys. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 35, 624-658.	2.3	111
98	Experimental investigation and optimization of compression moulding parameters for MWCNT/glass/kevlar/epoxy composites on mechanical and tribological properties. <i>Journal of Materials Research and Technology</i> , 2021, 15, 327-341.	2.6	32
99	Analysis of Sensitization in Austenitic Stainless Steel-Welded Joint. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 13-23.	0.3	40
100	Comprehensive Study on Tool Wear During Machining of Fiber-Reinforced Polymeric Composites. <i>Composites Science and Technology</i> , 2021, , 129-147.	0.4	4
101	Effectiveness Improvement in Manufacturing Industry; Trilogy Study and Open Innovation Dynamics. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2021, 7, 7.	2.6	14
102	Application of Type-2 Fuzzy AHP-ARAS for Selecting Optimal WEDM Parameters. <i>Metals</i> , 2021, 11, 42.	1.0	35
103	A Review of Indirect Tool Condition Monitoring Systems and Decision-Making Methods in Turning: Critical Analysis and Trends. <i>Sensors</i> , 2021, 21, 108.	2.1	148
104	Numerical Investigation of Microchannel Heat Sink with Trefoil Shape Ribs. <i>Energies</i> , 2021, 14, 6764.	1.6	13
105	Elucidating the Effect of Step Cooling Heat Treatment on the Properties of 2.25 Cr-1.0 Mo Steel Welded with a Combination of GMAW Techniques Incorporating Metal-Cored Wires. <i>Materials</i> , 2021, 14, 6033.	1.3	7
106	The Effects of MQL and Dry Environments on Tool Wear, Cutting Temperature, and Power Consumption during End Milling of AISI 1040 Steel. <i>Metals</i> , 2021, 11, 1674.	1.0	58
107	Prediction of Tool Shape in Electrical Discharge Machining of EN31 Steel Using Machine Learning Techniques. <i>Metals</i> , 2021, 11, 1668.	1.0	16
108	An Innovative Agile Model of Smart Lean-“Green Approach for Sustainability Enhancement in Industry 4.0. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2021, 7, 215.	2.6	37

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109	Modelling and Analysis of Surface Evolution on Turning of Hard-to-Cut CLARM 30NiCrMoV14 Steel Alloy. <i>Metals</i> , 2021, 11, 1751.	1.0	9
110	Optimization and Modeling of Material Removal Rate in Wire-EDM of Silicon Particle Reinforced Al6061 Composite. <i>Materials</i> , 2021, 14, 6420.	1.3	18
111	An Agile System to Enhance Productivity through a Modified Value Stream Mapping Approach in Industry 4.0: A Novel Approach. <i>Sustainability</i> , 2021, 13, 11997.	1.6	24
112	Skull Thickness Calculation Using Thermal Analysis and Finite Elements. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10483.	1.3	8
113	Study of a Multicriterion Decision-Making Approach to the MQL Turning of AISI 304 Steel Using Hybrid Nanocutting Fluid. <i>Materials</i> , 2021, 14, 7207.	1.3	30
114	Investigation on microstructure, mechanical, and tribological performance of Cu base hybrid composite materials. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6990-7003.	2.6	39
115	Corrosion Resistance and Surface Bioactivity of Ti6Al4V Alloy after Finish Turning under Ecological Cutting Conditions. <i>Materials</i> , 2021, 14, 6917.	1.3	11
116	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. <i>Materials</i> , 2021, 14, 7479.	1.3	9
117	Methodology for Evaluating the Cutting Force of Planar Technical Blades Used in Flatfish Processing. <i>Micromachines</i> , 2021, 12, 1516.	1.4	4
118	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
119	Product Quality Planning in Laser Metal Processing Based on Open Innovation Using Quality Function Deployment. <i>Journal of Open Innovation: Technology, Market, and Complexity</i> , 2021, 7, 240.	2.6	3
120	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). <i>Journal of Materials Processing Technology</i> , 2020, 278, 116500.	3.1	47
121	Machining characteristics based life cycle assessment in eco-benign turning of pure titanium alloy. <i>Journal of Cleaner Production</i> , 2020, 251, 119598.	4.6	69
122	Mechanical Strength Enhancement of 3D Printed Acrylonitrile Butadiene Styrene Polymer Components Using Neural Network Optimization Algorithm. <i>Polymers</i> , 2020, 12, 2250.	2.0	79
123	Sustainable Manufacturing and Parametric Analysis of Mild Steel Grade 60 by Deploying CNC Milling Machine and Taguchi Method. <i>Metals</i> , 2020, 10, 1303.	1.0	13
124	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. <i>Materials</i> , 2020, 13, 4242.	1.3	80
125	Comparative study on the mechanical, tribological, morphological and structural properties of vortex casting processed, Al-Si-Cr hybrid metal matrix composites for high strength wear-resistant applications: Fabrication and characterizations. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13607-13615.	2.6	80
126	Energy-Based Novel Quantifiable Sustainability Value Assessment Method for Machining Processes. <i>Energies</i> , 2020, 13, 6144.	1.6	8

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127	High-Accuracy 3D Optical Profilometry for Analysis of Surface Condition of Modern Circulated Coins. <i>Materials</i> , 2020, 13, 5371.	1.3	8
128	Microstructure and Properties of Heat Affected Zone in High-Carbon Steel after Welding with Fast Cooling in Water. <i>Materials</i> , 2020, 13, 5059.	1.3	16
129	Taguchi S/N and TOPSIS Based Optimization of Fused Deposition Modelling and Vapor Finishing Process for Manufacturing of ABS Plastic Parts. <i>Materials</i> , 2020, 13, 5176.	1.3	69
130	Empirical Investigations during WEDM of Ni-27Cu-3.15Al-2Fe-1.5Mn Based Superalloy for High Temperature Corrosion Resistance Applications. <i>Materials</i> , 2020, 13, 3470.	1.3	54
131	Machine Learning Modelling and Feature Engineering in Seismology Experiment. <i>Sensors</i> , 2020, 20, 4228.	2.1	8
132	Characterization of Magneto-electropolished Stainless Steel Surfacesâ€™ Texture by Using the Angle-Resolved Scattering and Image Processing Analysis Methods. <i>Metals</i> , 2020, 10, 1098.	1.0	5
133	A Study on the Machinability of Steels and Alloys to Develop Recommendations for Setting Tool Performance Characteristics and Belt Grinding Modes. <i>Materials</i> , 2020, 13, 3978.	1.3	8
134	Optimization and Analysis of Surface Roughness, Flank Wear and 5 Different Sensorial Data via Tool Condition Monitoring System in Turning of AISI 5140. <i>Sensors</i> , 2020, 20, 4377.	2.1	78
135	Sustainability Assessment, Investigations, and Modelling of Slot Milling Characteristics in Eco-Benign Machining of Hardened Steel. <i>Metals</i> , 2020, 10, 1650.	1.0	22
136	The Role of Observationâ€™ Measurement Methods in the Surface Characterization of X39Cr13 Stainless-Steel Cutting Blades Used in the Fish Processing Industry. <i>Materials</i> , 2020, 13, 5796.	1.3	4
137	Dimensional Analysis of Workpieces Machined Using Prototype Machine Tool Integrating 3D Scanning, Milling and Shaped Grinding. <i>Materials</i> , 2020, 13, 5663.	1.3	3
138	Development of a Risk Management Technique in Strategic Planning of Universities. Case study of a Polytechnical Institute. <i>Procedia Manufacturing</i> , 2020, 46, 256-262.	1.9	7
139	Unconventional Drive System of a 3D Printed Wheeled Mobile Robot. <i>Procedia Manufacturing</i> , 2020, 46, 509-516.	1.9	6
140	Technological Support of Abrasive Manufacturing of Products on a Flexible Basis by Evaluating Performance Indicators. <i>Procedia Manufacturing</i> , 2020, 46, 38-43.	1.9	7
141	Influence of the main cutting edge angle value on minimum uncut chip thickness during turning of C45 steel. <i>Journal of Manufacturing Processes</i> , 2020, 57, 354-362.	2.8	22
142	Internal Cylindrical Grinding Process of INCONEL® Alloy 600 Using Grinding Wheels with Solâ€™ Gel Alumina and a Synthetic Organosilicon Polymer-Based Impregnate. <i>Micromachines</i> , 2020, 11, 115.	1.4	8
143	Investigations of surface quality and energy consumption associated with costs and material removal rate during face milling of AISI 1045 steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 3511-3525.	1.5	58
144	Automation of Production Activities of an Industrial Enterprise based on the ERP System. <i>Procedia Manufacturing</i> , 2020, 46, 525-532.	1.9	13

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145	Influence of Variable Radius of Cutting Head Trajectory on Quality of Cutting Kerf in the Abrasive Water Jet Process for Soda-Lime Glass. <i>Materials</i> , 2020, 13, 4277.	1.3	28
146	Artificial Intelligence-Based Hole Quality Prediction in Micro-Drilling Using Multiple Sensors. <i>Sensors</i> , 2020, 20, 885.	2.1	48
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