Resource saving by optimization and machining enviro manufacturing: A review and future prospects

Renewable and Sustainable Energy Reviews

166, 112660

DOI: 10.1016/j.rser.2022.112660

Citation Report

#	Article	IF	Citations
2	Analysis of droplet characteristics and cooling lubrication effects in MQL milling of 316L stainless steel. Journal of Materials Research and Technology, 2022, 19, 4832-4856.	5.8	4
3	Investigating the effect of different tool electrodes in electric discharge drilling of Waspaloy on process responses. Journal of Materials Research and Technology, 2022, 20, 2542-2557.	5.8	8
4	Machinability analysis in high-speed milling of AlSi7Mg alloys under EMQL conditions: An approach toward sustainable manufacturing. Journal of Manufacturing Processes, 2022, 81, 1005-1017.	5.9	8
5	Study of Drilled Holes after a Cryogenic Machining in Glass Fiber-Reinforced Composites. Applied Sciences (Switzerland), 2022, 12, 10275.	2.5	4
6	A review of micro/nanostructure effects on the machining of metallic materials. Materials and Design, 2022, 224, 111315.	7.0	6
7	Resource conservation and sustainable development in the metal cutting industry within the framework of the green economy concept: An overview and case study. Sustainable Materials and Technologies, 2022, 34, e00507.	3.3	4
8	Evaluation of the Role of Dry and MQL Regimes on Machining and Sustainability Index of Strenx 900 Steel. Lubricants, 2022, 10, 301.	2.9	7
9	State of the Art of Biodegradable Nanofluids Application in Machining Processes. International Journal of Precision Engineering and Manufacturing - Green Technology, 2023, 10, 1299-1336.	4.9	3
10	A Multi-Objective Optimization Method for Flexible Job Shop Scheduling Considering Cutting-Tool Degradation with Energy-Saving Measures. Mathematics, 2023, 11, 324.	2.2	6
11	Sustainability in the metal forming industry. , 2022, , .		0
12	Unravelling the impact of carbon allotropes in flexible polydimethylsiloxane film towards self-powered triboelectric humidity sensor. Carbon, 2023, 205, 328-335.	10.3	6
13	Dry and MQL Milling of AISI 1045 Steel with Vegetable and Mineral-Based Fluids. Lubricants, 2023, 11, 175.	2.9	3
14	Optimization approach for MoS2-water ethylene glycol mixture nanofluid flow in a wavy enclosure. International Journal of Thermofluids, 2023, 18, 100337.	7.8	6
15	Toward sustainable future: Strategies, indicators, and challenges for implementing sustainable production systems. Sustainable Materials and Technologies, 2023, 36, e00617.	3.3	15
16	Generation and experimental verification of time and energy optimal coverage motion for industrial machines using a modified S-curve trajectory. International Journal of Advanced Manufacturing Technology, 2023, 125, 3593-3605.	3.0	1
17	Design and Optimization of a Pneumatic Clamping System for Direct-Driven Rotary Tables. Machines, 2023, 11, 207.	2.2	1
18	Detailed tribological analysis of compressor lubricants used in electrical technology. Lubrication Science, 0, , .	2.1	0
19	A Comprehensive Analysis of Surface Roughness, Vibration, and Acoustic Emissions Based on Machine Learning during Hard Turning of AISI 4140 Steel. Metals, 2023, 13, 437.	2.3	3

#	Article	IF	Citations
20	Biogenic synthesis and characterization of ZnO nanoparticles for degradation of synthetic dyes: A sustainable environmental cleaner approach. Journal of Cleaner Production, 2023, 398, 136616.	9.3	13
21	Optimization of Low-Carbon and Highly Efficient Turning Production Equipment Selection Based on Beetle Antennae Search Algorithm (BAS). Processes, 2023, 11, 911.	2.8	0
22	Re-use of jute fiber hybrid nonwoven breather within laminated composite applications: A case study. Sustainable Materials and Technologies, 2023, 36, e00621.	3.3	0
23	Assessment of the Effect of Thermal-Assisted Machining on the Machinability of SKD11 Alloy Steel. Metals, 2023, 13, 699.	2.3	7
24	Influence of particle size distribution on surface roughness in powder bed fusion - A contribution to increase resource efficiency. CIRP Annals - Manufacturing Technology, 2023, 72, 145-148.	3.6	1
25	A review on sustainable alternatives for conventional cutting fluid applications for improved machinability. Machining Science and Technology, 2023, 27, 157-207.	2.5	1
26	Microalgae Oil-Based Metal Working Fluids for Sustainable Minimum Quantity Lubrication (MQL) Operationsâ€"A Perspective. Lubricants, 2023, 11, 215.	2.9	2
27	Ceramic material coatings: emerging future applications. , 2023, , 3-17.		5
28	An MCDM approach for multi-response optimisation of machining parameters in turning of EN8 steel (AISI-1040) for sustainable manufacturing. International Journal on Interactive Design and Manufacturing, 2023, 17, 3159-3176.	2.2	3
29	Evaluation of the Effect of a Natural-Based Emulsion on the Cold Rolling Process. Journal of Manufacturing and Materials Processing, 2023, 7, 121.	2.2	1
30	Smart Factory Transformation Using Industry 4.0 toward ESG Perspective: A Critical Review and Future Direction. , 2023, 1, 165-185.		3
32	Different cooling strategies applied during the process of aluminum alloy boring. International Journal of Advanced Manufacturing Technology, 2023, 128, 563-579.	3.0	5
33	Carbon emissions and overall sustainability assessment in eco-friendly machining of Monel-400 alloy. Sustainable Materials and Technologies, 2023, 37, e00675.	3.3	5
34	A multi-criterion optimization of mechanical properties and sustainability performance in friction stir welding of 6061-T6 AA. Materials Today Communications, 2023, 36, 106838.	1.9	1
35	Investigation on Three-Body Abrasion Resistance of Mild Steel Soil Slurry Condition-Simulating Agricultural Condition. Advances in Materials Science and Engineering, 2023, 2023, 1-9.	1.8	0
36	A comprehensive review of generating, monitoring, evaluating, and controlling particle emissions during machining process. Journal of Manufacturing Systems, 2023, 70, 395-416.	13.9	0
37	Sustainability of Methods for Augmented Ultra-Precision Machining. International Journal of Precision Engineering and Manufacturing - Green Technology, 2024, 11, 585-624.	4.9	0
38	An energy survey to optimize the technological parameters during the milling of AISI 304L steel using the RSM, ANN and genetic algorithm. Advances in Materials and Processing Technologies, 0, , 1-19.	1.4	4

#	Article	IF	Citations
39	Equipment-process-strategy integration for sustainable machining: a review. Frontiers of Mechanical Engineering, 2023, 18, .	4.3	1
40	Dry finishing turning of AA7075 with binary and ternary nitrides and carbides ceramic-coated tools. International Journal of Advanced Manufacturing Technology, 2023, 129, 65-87.	3.0	0
41	Evaluation of tool wear during turning of Ti6Al4V alloy applying MQL technique with Cu nanoparticles diversified in terms of size. Wear, 2023, 532-533, 205111.	3.1	1
43	Multi-objective optimisation for energy saving and high efficiency production oriented multidirectional turning based on improved fireworks algorithm considering energy, efficiency and quality. Energy, 2023, 284, 129205.	8.8	1
44	Temperature-dependent cutting physics in orthogonal cutting of carbon fibre reinforced thermoplastic (CFRTP) composite. Composites Part A: Applied Science and Manufacturing, 2024, 176, 107820.	7.6	2
45	A contemporary advancement of intelligent machining and sustainability aspects in hard machining area: A Critical Review. E3S Web of Conferences, 2023, 430, 01296.	0.5	0
46	Sustainable Manufacturing of High-Performance Composites from Recycled Materials. E3S Web of Conferences, 2023, 430, 01105.	0.5	0
47	Sustainable use of energy contributes to carbon neutrality and environmental footprints reduction. Energy, 2023, 285, 129464.	8.8	0
48	Android ransomware detection using binary <scp>Jaya optimization algorithm</scp>. Expert Systems, 2024, 41, .	4.5	0
49	Evaluation of palm kernel oil as lubricants in cylindrical turning of AISI 304 austenitic stainless steel using Taguchi-grey relational methodology. Materials Research Express, 2023, 10, 126505.	1.6	2
50	Development of a framework for sustainability assessment of the machining process through machining parameter optimisation technique. International Journal of Sustainable Engineering, 2024, 17, 1-24.	3.5	0
51	Investigation of ultrasonic vibration assisted orthogonal turning under dry and minimum quantity lubrication conditions and performing sustainability analyses. Journal of Cleaner Production, 2024, 434, 140187.	9.3	3
52	A real time condition based sustainable maintenance method for milling process. Journal of Cleaner Production, 2024, 434, 140284.	9.3	0
54	Ecological and economic potential of sustainable development as efficiency increase of road transport service (Tomsk). Vestnik Tomskogo Gosudarstvennogo Arkhitekturno-stroitel Nogo Universiteta JOURNAL of Construction and Architecture, 2024, 25, 218-232.	0.2	0
55	A Study on the Machinability of Environmentally Friendly Turning of Titanium Grade 2 Alloy. Journal of Tribology, 2024, 146, .	1.9	0
56	Synthesis and characterization of bio-fabricated silver nanoparticles as green catalysts for mitigation of synthetic dyes: A sustainable environmental remedial approach. Journal of Molecular Liquids, 2024, 396, 124061.	4.9	0
57	SAMSaxâ€”An Innovative Living Lab for the Advancement of a Circular Economy through Additive Manufacturing Technologies. Sustainability, 2024, 16, 823.	3.2	0
58	Recent developments in MQL machining of aeronautical materials: A comparative review. Chinese Journal of Aeronautics, 2024, , .	5.3	0

#	Article	IF	Citations
59	Poly(ionic liquid)s with amino acids counterions as multifunctional water-based additives contributing to green lubrication. Tribology International, 2024, 192, 109295.	5.9	1
60	Sustainable CNC machining operations, a review. Sustainable Operations and Computers, 2024, 5, 73-87.	13.1	0
61	Vrednotenje trajnostnega razvoja v industrijskem okolju. , 2024, , .		0
62	Sustainable Manufacturing Practices in Textiles and Fashion. Sustainable Textiles, 2024, , 1-22.	0.7	0
63	Simultaneous Optimization of Power Consumption and Surface Roughness in Machining Using NSGA-II and Weighted Sum Method. Lecture Notes in Mechanical Engineering, 2024, , 153-162.	0.4	0
64	A Review of the Factors Influencing Surface Roughness in Machining and Their Impact on Sustainability. Sustainability, 2024, 16, 1917.	3.2	0
65	Investigation of optimal machining Monel 400 superalloy considering carbon emissions using FEM, regression and ANN methods. Journal of Cleaner Production, 2024, 447, 141616.	9.3	0
66	The Application of FlexPDE in Cavity Problems. Advances in Chemical and Materials Engineering Book Series, 2023, , 78-161.	0.3	0
67	On-Machine Measurement as a Factor Affecting the Sustainability of the Machining Process. Sustainability, 2024, 16, 2093.	3.2	0
68	Optimization of Turning Parameters and Cooling Techniques for Enhanced Machining Performance of EN8 Steel Using L9 Orthogonal Array. , 0, , .		0