

# Rendi Kurniawan

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

759  
citations

516561

16  
h-index

580701

25  
g-index

51  
all docs

51  
docs citations

51  
times ranked

480  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface roughness of two-frequency elliptical vibration texturing (TFEVT) method for micro-dimple pattern process. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 116, 77-95.	6.2	62
2	Measurement of burr removal rate and analysis of machining parameters in ultrasonic assisted dry EDM (US-EDM) for deburring drilled holes in CFRP composite. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 110, 98-115.	2.5	53
3	Micro-dimple pattern process and orthogonal cutting force analysis of elliptical vibration texturing. <i>International Journal of Machine Tools and Manufacture</i> , 2016, 106, 127-140.	6.2	52
4	Development of a two-frequency, elliptical-vibration texturing device for surface texturing. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 3465-3473.	0.7	40
5	Experimental and analytical study of ultrasonic elliptical vibration cutting on AISI 1045 for sustainable machining of round-shaped microgroove pattern. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 2031-2055.	1.5	40
6	A study of surface texturing using piezoelectric tool holder actuator on conventional CNC turning. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 199-206.	1.1	35
7	Optimization of porosity and tensile strength of electrospun polyacrylonitrile nanofibrous membranes. <i>Materials Chemistry and Physics</i> , 2019, 229, 310-318.	2.0	34
8	ANFIS modeling of surface roughness in abrasive waterjet machining of carbon fiber reinforced plastics. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 3949-3954.	0.7	29
9	Grey fuzzy optimization of ultrasonic-assisted EDM process parameters for deburring CFRP composites. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 123, 203-212.	2.5	27
10	Hybrid thermal resistant electrospun polymer membrane as the separator of lithium ion batteries. <i>Materials Chemistry and Physics</i> , 2020, 245, 122780.	2.0	25
11	Development of a Three-Dimensional Ultrasonic Elliptical Vibration Transducer (3D-UEVT) Based on Sandwiched Piezoelectric Actuator for Micro-grooving. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 1229-1240.	1.1	22
12	Review on the methodologies adopted to minimize the material damages in drilling of carbon fiber reinforced plastic composites. <i>Journal of Reinforced Plastics and Composites</i> , 2019, 38, 351-368.	1.6	21
13	Study on surface integrity of titanium alloy machined by electrical discharge-assisted milling. <i>Journal of Materials Processing Technology</i> , 2022, 299, 117334.	3.1	21
14	Drill bit with a helical groove edge for clean drilling of carbon fiber-reinforced plastic. <i>Journal of Materials Processing Technology</i> , 2019, 274, 116291.	3.1	20
15	Surface topography analysis in three-dimensional elliptical vibration texturing (3D-EVT). <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 1601-1621.	1.5	20
16	Friction reduction on cylindrical surfaces by texturing with a piezoelectric actuated tool holder. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 861-868.	1.1	17
17	3-DOF ultrasonic elliptical vibration tool holder based on coupled resonance modes for manufacturing micro-groove. <i>Precision Engineering</i> , 2021, 67, 212-231.	1.8	17
18	Novel Environmentally Friendly Manufacturing Method for Micro-Textured Cutting Tools. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2021, 8, 193-204.	2.7	16

#	ARTICLE	IF	CITATIONS
19	Machinability analysis of difficult-to-cut material during ultrasonic vibration-assisted ball end milling. <i>Materials and Manufacturing Processes</i> , 2021, 36, 1734-1745.	2.7	16
20	Cutting Force Model in Micro-Dimple Pattern Process Using Two-Frequency Elliptical Vibration Texturing (TFEVT) Method. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019, 20, 1-11.	1.1	14
21	Measurement of wettability on rhombohedral pattern fabricated by using 3D-UEVT. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 160, 107784.	2.5	14
22	Development of 3D Resonant Elliptical Vibration Transducer for Dual-Frequency Micro-Dimple Surface Texturing. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 1365.	1.1	14
23	A Brief Review on Importance of Surface Texturing in Materials to Improve the Tribological Performance. <i>Reviews on Advanced Materials Science</i> , 2018, 53, 40-48.	1.4	13
24	Evaluation of a hybrid cryogenic deburring method to remove uncut fibers on carbon fiber-reinforced plastic composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 1509-1523.	1.5	13
25	Performance of surface-textured end-mill insert on AISI 1045 steel. <i>Materials and Manufacturing Processes</i> , 2019, 34, 18-29.	2.7	13
26	Machinability of modified Inconel 713C using a WC TiAlN-coated tool. <i>Journal of Manufacturing Processes</i> , 2020, 57, 409-430.	2.8	13
27	A new tool holder design with two-dimensional motion for fabricating micro-dimple and groove patterns. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 1165-1171.	1.1	12
28	Performance evaluation of micro-dimple formation on a Ti-6Al-4V alloy by using electrical discharge drilling. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 4365-4372.	0.7	11
29	Finite Element Analysis in Ultrasonic Elliptical Vibration Cutting (UEVC) During Micro-Grooving in AISI 1045. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 1497-1515.	1.1	11
30	Analytical, FEA, and experimental research of 2D-Vibration Assisted Cutting (2D-VAC) in titanium alloy Ti6Al4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 117, 1739-1764.	1.5	8
31	Experimental Study of Microgroove Surface Using Three-Dimensional Elliptical Vibration Texturing. <i>Journal of Micro and Nano-Manufacturing</i> , 2019, 7, .	0.8	7
32	Experimental investigation of burr reduction during EDM end-milling hybrid process. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 2847-2853.	0.7	6
33	Evaluation of thrust force and delamination in drilling of CFRP by using active spring restoring backup force. <i>Materials Today: Proceedings</i> , 2022, 49, 269-274.	0.9	6
34	Mechanism study of micro-electrical discharge drilling method during micro-dimpling. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 2549-2559.	0.7	5
35	Tribological properties of hierarchical micro-dimples produced on a cylindrical surface by dual-frequency texturing. <i>Friction</i> , 2023, 11, 246-258.	3.4	5
36	Modal simulation analysis of novel 3D elliptical ultrasonic transducer. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 324, 012063.	0.3	4

#	ARTICLE	IF	CITATIONS
37	Development of Langevin Piezoelectric Transducer-based Two Dimensional Ultrasonic Vibration Assisted Machining (2D UVAM) on 5-axis Micro-milling Machine. IOP Conference Series: Materials Science and Engineering, 2019, 654, 012015.	0.3	3
38	Numerical analysis in ultrasonic elliptical vibration cutting (UEVC) combined with electrical discharge assistance (EDA) for Ti6Al4V. International Journal of Advanced Manufacturing Technology, 0, , 1.	1.5	3
39	A COMPREHENSIVE REVIEW ON MINIMUM QUANTITY LUBRICATION IN TURNING PROCESS. Surface Review and Letters, 2022, 29, .	0.5	3
40	The effect of tool material grain size on the machining process in ball end milling. International Journal of Advanced Manufacturing Technology, 2020, 106, 4411-4421.	1.5	2
41	Investigating the corrosion behaviour of conveyor chain pin and link. Materials Today: Proceedings, 2021, , .	0.9	2
42	Topology and modular size optimization of small electric vehicle frame based on cross-section contribution analysis. Structural and Multidisciplinary Optimization, 2021, 64, 4287-4304.	1.7	2
43	Effect of burrs on the friction performance of hierarchical micro-dimple textured AISI 1045 steel. Journal of Mechanical Science and Technology, 2021, 35, 5631-5642.	0.7	2
44	Preparation of polyacrylonitrile nanofibrous membrane for fabrication of separator of lithium ion batteries. IOP Conference Series: Materials Science and Engineering, 2018, 324, 012062.	0.3	1
45	Wear resistance characteristics of materials used in oil sands plants. Journal of Mechanical Science and Technology, 2018, 32, 4173-4181.	0.7	1
46	Analyzing Friction Coefficient and Wettability of Micro-Dimple Fabricated Using Elliptical Vibration Texturing Method. Journal of the Korean Society of Manufacturing Process Engineers, 2020, 19, 38-44.	0.1	1
47	Characterization of Elliptical Dimple Fabricated with Dual Frequency Vibration Assisted Machining. Journal of the Korean Society of Manufacturing Process Engineers, 2021, 20, 23-31.	0.1	0
48	Experimental Study of Micro-Groove Surface using Three Dimensional Elliptical Vibration Texturing. , 2018, , .		0