

# Mohd Ridzuan Mohd Jamir

## List of Publications by Year in descending order

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103  
papers

1,547  
citations

304743

22  
h-index

330143

37  
g-index

106  
all docs

106  
docs citations

106  
times ranked

1375  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of water absorption on the mechanical properties of hybrid interwoven cellulosic-cellulosic fibre reinforced epoxy composites. <i>Composite Structures</i> , 2017, 167, 227-237.	5.8	159
2	Characterisation of natural cellulosic fibre from <i>Pennisetum purpureum</i> stem as potential reinforcement of polymer composites. <i>Materials and Design</i> , 2016, 89, 839-847.	7.0	146
3	Experimental evaluation of palm oil as lubricant in cold forward extrusion process. <i>International Journal of Mechanical Sciences</i> , 2011, 53, 549-555.	6.7	105
4	Thermal behaviour and dynamic mechanical analysis of <i>Pennisetum purpureum</i> /glass-reinforced epoxy hybrid composites. <i>Composite Structures</i> , 2016, 152, 850-859.	5.8	101
5	Moisture absorption and mechanical degradation of hybrid <i>Pennisetum purpureum</i> /glass-epoxy composites. <i>Composite Structures</i> , 2016, 141, 110-116.	5.8	74
6	Dynamic mechanical analysis and effects of moisture on mechanical properties of interwoven hemp/polyethylene terephthalate (PET) hybrid composites. <i>Construction and Building Materials</i> , 2018, 179, 265-276.	7.2	64
7	Mechanical, thermal and morphological characterisation of 3D porous <i>Pennisetum purpureum</i> /PLA biocomposites scaffold. <i>Materials Science and Engineering C</i> , 2017, 75, 752-759.	7.3	54
8	Influence of hydrothermal ageing on the compressive behaviour of glass fibre/epoxy composite pipes. <i>Composite Structures</i> , 2017, 159, 350-360.	5.8	54
9	Influence of hydrothermal ageing on the mechanical properties of an adhesively bonded joint with different adherends. <i>Composites Part B: Engineering</i> , 2019, 165, 572-585.	12.0	48
10	Tensile and fatigue properties of single lap joints of aluminium alloy/glass fibre reinforced composites fabricated with different joining methods. <i>Composite Structures</i> , 2018, 200, 647-658.	5.8	47
11	Effect of pineapple leaf (PALF), napier, and hemp fibres as filler on the scratch resistance of epoxy composites. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5384-5395.	5.8	46
12	Development and characterisation of packaging film from Napier cellulose nanowhisker reinforced polylactic acid (PLA) bionanocomposites. <i>International Journal of Biological Macromolecules</i> , 2021, 187, 43-53.	7.5	42
13	Paraffinic mineral oil lubrication for cold forward extrusion: Effect of lubricant quantity and friction. <i>Tribology International</i> , 2013, 60, 111-115.	5.9	38
14	Structural, Morphological and Thermal Properties of Cellulose Nanofibers from Napier fiber ( <i>Pennisetum purpureum</i> ). <i>Materials</i> , 2020, 13, 4125.	2.9	35
15	The Effects of the Alkaline Treatment's Soaking Exposure on the Tensile Strength of Napier Fibre. <i>Procedia Manufacturing</i> , 2015, 2, 353-358.	1.9	34
16	Effect of moisture exposure and elevated temperatures on impact response of <i>Pennisetum purpureum</i> /glass-reinforced epoxy (PGRE) hybrid composites. <i>Composites Part B: Engineering</i> , 2019, 160, 84-93.	12.0	32
17	In vitro degradation of a 3D porous <i>Pennisetum purpureum</i> /PLA biocomposite scaffold. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 74, 383-391.	3.1	30
18	Compressive properties of Napier ( <i>Pennisetum Purpureum</i> ) filled polyester composites. <i>Plastics, Rubber and Composites</i> , 2016, 45, 136-146.	2.0	27

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19	First-ply failure prediction of glass/epoxy composite pipes using an artificial neural network model. <i>Composite Structures</i> , 2018, 200, 579-588.	5.8	27
20	The Effect of Stacking Sequence and Ply Orientation on the Mechanical Properties of Pineapple Leaf Fibre (PALF)/Carbon Hybrid Laminate Composites. <i>Polymers</i> , 2021, 13, 455.	4.5	26
21	The effect of nanomodified epoxy on the tensile and flexural properties of Napier fiber reinforced composites. <i>Polymer Composites</i> , 2020, 41, 824-837.	4.6	25
22	Alkali treatment influence on cellulosic fiber from <i>Furcraea foetida</i> leaves as potential reinforcement of polymeric composites. <i>Journal of Materials Research and Technology</i> , 2022, 19, 2567-2583.	5.8	24
23	Hydrothermal ageing effect on the mechanical behaviour and fatigue response of aluminium alloy/glass/epoxy hybrid composite single lap joints. <i>Composite Structures</i> , 2019, 219, 69-82.	5.8	21
24	The effects of alkali treatment on the mechanical and morphological properties of <i>Pennisetum purpureum</i> /glass-reinforced epoxy hybrid composites. <i>Plastics, Rubber and Composites</i> , 2017, 46, 421-430.	2.0	18
25	Effect of thermal ageing on the scratch resistance of natural-fibre-reinforced epoxy composites. <i>Composite Structures</i> , 2021, 261, 113586.	5.8	18
26	Effect of nano-clay fillers on mechanical and morphological properties of Napier/epoxy Composites. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012010.	0.4	13
27	Isolation and characterisation of cellulose from cortex, pith and whole of the <i>Pennisetum purpureum</i> : Effect of sodium hydroxide concentration. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15057-15071.	5.8	13
28	Adsorption of Remazol Brilliant Violet 5R dye from aqueous solution onto melunak and rubberwood sawdust based activated carbon: interaction mechanism, isotherm, kinetic and thermodynamic properties. , 0, 216, 401-411.		12
29	Low Frequency Dielectric and Optical Behavior on Physicochemical Properties of Hydroxyapatite/Cornstarch Composite. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 187-198.	9.4	12
30	Heat transfer improvement in simulated small battery compartment using metal oxide (CuO)/deionized water nanofluid. <i>Heat and Mass Transfer</i> , 2020, 56, 399-406.	2.1	11
31	Morphological and optical properties of porous hydroxyapatite/cornstarch (HAp/Cs) composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14267-14282.	5.8	10
32	Analysis and physicochemical properties of cellulose nanowhiskers from <i>Pennisetum purpureum</i> via different acid hydrolysis reaction time. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 241-248.	7.5	10
33	Dielectric and material analysis on physicochemical activity of porous hydroxyapatite/cornstarch composites. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 1543-1553.	7.5	10
34	Design and Development of Three-Phase Voltage Source Inverter for Variable Frequency Drive. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 705, 012016.	0.6	9
35	Effect of natural filler loading, multi-walled carbon nanotubes (MWCNTs), and moisture absorption on the dielectric constant of natural filled epoxy composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 262, 114744.	3.5	9
36	Physical, Thermal Transport, and Compressive Properties of Epoxy Composite Filled with Graphitic- and Ceramic-Based Thermally Conductive Nanofillers. <i>Polymers</i> , 2022, 14, 1014.	4.5	9

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37	Properties of Palm Pressed Fibre for Metal Forming Lubricant Applications. <i>Procedia Engineering</i> , 2013, 68, 130-137.	1.2	8
38	Physical, thermal, and mechanical properties of highly porous polylactic acid/cellulose nanofibre scaffolds prepared by salt leaching technique. <i>Nanotechnology Reviews</i> , 2021, 10, 1469-1483.	5.8	8
39	Effects of fibre loading and moisture absorption on the tensile properties of hybrid Napier/glass/epoxy composites. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012014.	0.4	7
40	Fracture risk prediction on children with Osteogenesis Imperfecta subjected to loads under activity of daily living. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 429, 012004.	0.6	7
41	Fabrication and characterization of three-dimensional porous cornstarch/n-HAp biocomposite scaffold. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	6
42	The Effect of Stacking Sequence on Fatigue Behaviour of Hybrid Pineapple Leaf Fibre/Carbon-Fibre-Reinforced Epoxy Composites. <i>Polymers</i> , 2021, 13, 3936.	4.5	6
43	Biodegradation of PLA- <i>Pennisetum purpureum</i> based biocomposite scaffold. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012029.	0.4	5
44	Characterisation of structural and physical properties of cellulose nanofibers from <i>Pennisetum purpureum</i> . <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 670, 012043.	0.6	5
45	Influence of distilled water and alkaline solution on the scratch resistance properties of Napier fibre filled epoxy (NFFE) composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14412-14424.	5.8	5
46	Effect of nanoclay filler on mechanical and morphological properties of Napier/ epoxy composites. , 2020, , 137-162.		5
47	Dielectric Properties of Hydrothermally Modified Potato, Corn, and Rice Starch. <i>Agriculture (Switzerland)</i> , 2022, 12, 783.	3.1	5
48	Tensile properties of compressed moulded Napier/glass fibre reinforced epoxy composites. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012013.	0.4	4
49	Experimental study on gas-liquid flow distributions in upward multi-pass channels-Comparison of R-134a flow and air-water flow. <i>Experimental Thermal and Fluid Science</i> , 2018, 91, 134-143.	2.7	4
50	Adsorbent from orange peel for Remazol Brilliant dye removal: Equilibrium and kinetic studies. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	4
51	Damage self-sensing and strain monitoring of glass-reinforced epoxy composite impregnated with graphene nanoplatelet and multiwalled carbon nanotubes. <i>Nanotechnology Reviews</i> , 2022, 11, 1977-1990.	5.8	4
52	Effect of extrusion ratio on paraffinic mineral oil lubricant in cold forward extrusion. , 2012, , .		3
53	Minimum Quantity Lubrication in Cold Work Drawing Process: Effects on Forming Load and Surface Roughness. <i>Procedia Engineering</i> , 2013, 68, 639-646.	1.2	3
54	Water absorption behaviour of hybrid interwoven cellulosic fibre composites. <i>Journal of Physics: Conference Series</i> , 2017, 908, 012015.	0.4	3

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55	Impact properties of interwoven hemp/polyethylene terephthalate (PET) hybrid composites. AIP Conference Proceedings, 2018, , .	0.4	3
56	Thermal polymer composites of hybrid fillers. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012037.	0.6	3
57	Viscosity Analysis of Empty Fruit Bunch (EFB) Bio-Oil. Journal of Mechanical Engineering and Sciences, 2013, 5, 623-630.	0.6	3
58	COP Improvement of Thermoelectric Cooler through the Optimization of Heat Dissipation System. Applied Mechanics and Materials, 2014, 554, 241-245.	0.2	2
59	Impact responses, compressive and burst tests of glass/epoxy (GRE) composite pipes. Journal of Physics: Conference Series, 2017, 908, 012021.	0.4	2
60	Effect of elevated temperature on the tensile strength of Napier/glass-epoxy hybrid reinforced composites. AIP Conference Proceedings, 2017, , .	0.4	2
61	Tensile properties of interwoven hemp/PET (Polyethylene Terephthalate) epoxy hybrid composites. Journal of Physics: Conference Series, 2017, 908, 012011.	0.4	2
62	Effect of stress ratio on the fatigue behaviour of glass/epoxy composite. Journal of Physics: Conference Series, 2017, 908, 012030.	0.4	2
63	Experimental study on the fatigue strength of bonded/bolted metal-fibre. AIP Conference Proceedings, 2018, , .	0.4	2
64	Dielectric properties of kenaf filled epoxy composites. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012047.	0.6	2
65	Isolation and characterisation of nanowhisker cellulose from Pennisetum purpureum. IOP Conference Series: Materials Science and Engineering, 0, 670, 012044.	0.6	2
66	A study of minimum quantity lubricant of refined bleached deodorized palm stearin in plane strain extrusion. , 2012, , .		1
67	Correlation between Contact Load and Surface Roughness in Plane Strain Extrusion. Procedia Engineering, 2013, 68, 634-638.	1.2	1
68	Effect of Surface Roughness of Pure Aluminium A1100 on the Cold Work Extrusion by Using Different Angles of Taper Die. Key Engineering Materials, 2013, 594-595, 546-550.	0.4	1
69	Recognition system of Underground Object Shape using ground penetrating radar datagram. , 2015, , .		1
70	Effect of elevated temperatures on flexural strength of hybrid Napier/glass reinforced epoxy composites. Journal of Physics: Conference Series, 2017, 908, 012017.	0.4	1
71	The effect of alkali treatment on the tensile properties of hybrid Napier/glass reinforced epoxy composites. AIP Conference Proceedings, 2018, , .	0.4	1
72	Flexural properties of hybrid synthetic/Napier fibres reinforced epoxy composites. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012034.	0.6	1

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73	Impact response performance of pineapple leaf fibre (PALF)/carbon reinforced hybrid composite. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012029.	0.6	1
74	Characterisation and Comparison of Pith and Cortex of Napier Grass Stem. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012138.	0.6	1
75	Microwave Dielectric Analysis on Porous Hydroxyapatite/Starch Composites with Various Ratio of Hydroxyapatite to Starch. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012175.	0.6	1
76	A comparative study on chitosan/gelatin composite films with incorporated Pith and Cortex of Napier Grass.. Journal of Physics: Conference Series, 2021, 2051, 012023.	0.4	1
77	Bending strength analysis of HDPE plastic reinforced wood waste and thermoplastic polymer to replace ceramic tile composites. Journal of Physics: Conference Series, 2021, 2051, 012045.	0.4	1
78	Dynamic mechanical analysis of graphene nanoplatelets/glass reinforced epoxy composite. Journal of Physics: Conference Series, 2021, 2051, 012046.	0.4	1
79	The Effect of Lubricant Viscosity in High Pressure Forming. , 2010, , .		0
80	Design and Development of Tracking System for Mines Detector Robot. Key Engineering Materials, 0, 594-595, 919-923.	0.4	0
81	Performance of Thermoelectric Cooling System: Effect of Aluminium Heat Sink and Heat Dissipation. Key Engineering Materials, 0, 594-595, 1122-1125.	0.4	0
82	Identification of Limiting Friction Coefficient towards Improved Hip Prostheses. Advanced Materials Research, 2013, 795, 69-73.	0.3	0
83	An Experimental Investigation of Palm Pressed Fibre Waste as Lubricant in Strip Drawing. Jurnal Teknologi (Sciences and Engineering), 2014, 66, .	0.4	0
84	Finite Element and Experimental Study of Friction and Lubricants in Strip Drawing. Applied Mechanics and Materials, 2014, 554, 345-349.	0.2	0
85	The characterization of polylactic acid-Napier fibres as scaffolds for tissue engineering. , 2016, , .		0
86	Failure prediction of $\pm 55^\circ$ glass/epoxy composite pipes using system identification modelling. Journal of Physics: Conference Series, 2017, 908, 012012.	0.4	0
87	Failure envelope modelling of glass/epoxy composite pipes using system identification method. , 2017, , .		0
88	Single fibre strength of cellulosic fibre extracted from "Belatlan roots" plant. AIP Conference Proceedings, 2017, , .	0.4	0
89	Determination of effective elastic properties of metal matrix composites with damage particulates using homogenization method. Journal of Physics: Conference Series, 2017, 908, 012027.	0.4	0
90	Behaviour of GRE composite pipes after fire exposure under dry and wet internal conditioning. IOP Conference Series: Materials Science and Engineering, 2018, 429, 012012.	0.6	0

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91	Water ageing effect on the strength of adhesively bonded joints. AIP Conference Proceedings, 2018, , .	0.4	0
92	Study on deformation characteristics of tailored blanks having thickness distribution by successive forging process. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012064.	0.6	0
93	CFD analysis of hydrodynamic lubrication effects of micro textured surface. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012061.	0.6	0
94	Hardened Glass Particle and Carbon Black Using Resin for Potential Electromagnetic Shielding in Biomedical Electronic Equipments. Journal of Physics: Conference Series, 2019, 1372, 012072.	0.4	0
95	Displacement response of femur with various deformity angles under vertical load: FEA and experiment. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012072.	0.6	0
96	Impact response of Napier fibre reinforced nanomodified epoxy composites. IOP Conference Series: Materials Science and Engineering, 2019, 670, 012050.	0.6	0
97	The Effect of the Amylose/Amylopectin Contents of Starch on Porosity and Dielectric Properties of the Porous Hydroxyapatite/Starch Composites. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012198.	0.6	0
98	Fire exposure, impact responses, and burst tests of glass-reinforced epoxy (GRE) composite pipes. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012129.	0.6	0
99	Residual strength of fire-exposed glass-reinforced epoxy composite pipes. Materialpruefung/Materials Testing, 2019, 61, 618-620.	2.2	0
100	Effect of synthetic fibres on tensile properties of Napier fibres reinforced epoxy composites. IOP Conference Series: Materials Science and Engineering, 0, 670, 012019.	0.6	0
101	Preparation and Performance Test of PEFB Reinforced Box Waste Coated Superhydrophobic Coating for Shoe Sole Application. International Journal of Integrated Engineering, 2020, 12, .	0.4	0
102	Regression Analysis of the Dielectric and Morphological Properties for Porous Nanohydroxyapatite/Starch Composites: A Correlative Study. International Journal of Molecular Sciences, 2022, 23, 5695.	4.1	0
103	Influence of Cellulose Filler Extracted from Napier Grass on Thermal Characterizations, Moisture Content, Tensile Strength, Biodegradation, and Morphological Structure of Bioplastic Films. Journal of Natural Fibers, 0, , 1-12.	3.1	0