

Mohamad Ridzwan Ishak

List of Publications by Citations

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116
papers

5,234
citations

39
h-index

70
g-index

121
ext. papers

6,397
ext. citations

2.7
avg, IF

6.5
L-index

#	Paper	IF	Citations
116	Isolation and characterization of nanocrystalline cellulose from sugar palm fibres (Arenga Pinnata). <i>Carbohydrate Polymers</i> , 2018 , 181, 1038-1051	10.3	296
115	Development and characterization of sugar palm nanocrystalline cellulose reinforced sugar palm starch bionanocomposites. <i>Carbohydrate Polymers</i> , 2018 , 202, 186-202	10.3	256
114	A Review on Pineapple Leaves Fibre and Its Composites. <i>International Journal of Polymer Science</i> , 2015 , 2015, 1-16	2.4	252
113	Effect of Plasticizer Type and Concentration on Tensile, Thermal and Barrier Properties of Biodegradable Films Based on Sugar Palm (Arenga pinnata) Starch. <i>Polymers</i> , 2015 , 7, 1106-1124	4.5	233
112	Effect of Alkali and Silane Treatments on Mechanical and Fibre-matrix Bond Strength of Kenaf and Pineapple Leaf Fibres. <i>Journal of Bionic Engineering</i> , 2016 , 13, 426-435	2.7	201
111	Nanocrystalline Cellulose as Reinforcement for Polymeric Matrix Nanocomposites and its Potential Applications: A Review. <i>Current Analytical Chemistry</i> , 2018 , 14, 203-225	1.7	163
110	A review on the characterisation of natural fibres and their composites after alkali treatment and water absorption. <i>Plastics, Rubber and Composites</i> , 2017 , 46, 119-136	1.5	156
109	Sugar palm nanofibrillated cellulose (Arenga pinnata (Wurmb.) Merr): Effect of cycles on their yield, physic-chemical, morphological and thermal behavior. <i>International Journal of Biological Macromolecules</i> , 2019 , 123, 379-388	7.9	154
108	Sugar palm (Arenga pinnata): Its fibres, polymers and composites. <i>Carbohydrate Polymers</i> , 2013 , 91, 699-710	7.0	151
107	Effect of plasticizer type and concentration on physical properties of biodegradable films based on sugar palm (arenga pinnata) starch for food packaging. <i>Journal of Food Science and Technology</i> , 2016 , 53, 326-36	3.3	149
106	Effect of delignification on the physical, thermal, chemical, and structural properties of sugar palm fibre. <i>BioResources</i> , 2017 , 12, 8734-8754	1.3	134
105	Fibre properties and crashworthiness parameters of natural fibre-reinforced composite structure: A literature review. <i>Composite Structures</i> , 2016 , 148, 59-73	5.3	132
104	Development and characterization of sugar palm starch and poly(lactic acid) bilayer films. <i>Carbohydrate Polymers</i> , 2016 , 146, 36-45	10.3	112
103	Recent developments in sugar palm (Arenga pinnata) based biocomposites and their potential industrial applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 54, 533-549	16.2	111
102	Characterization of sugar palm (Arenga pinnata) fibres. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 109, 981-989	4.1	99
101	Sugar palm (Arenga pinnata [Wurmb.] Merr) starch films containing sugar palm nanofibrillated cellulose as reinforcement: Water barrier properties. <i>Polymer Composites</i> , 2020 , 41, 459-467	3	93
100	Potential of Natural Fiber Reinforced Polymer Composites in Sandwich Structures: A Review on Its Mechanical Properties. <i>Polymers</i> , 2021 , 13,	4.5	88

99	Physicochemical and thermal properties of lignocellulosic fiber from sugar palm fibers: effect of treatment. <i>Cellulose</i> , 2016 , 23, 2905-2916	5.5	83
98	Fabrication, Functionalization, and Application of Carbon Nanotube-Reinforced Polymer Composite: An Overview. <i>Polymers</i> , 2021 , 13,	4.5	83
97	A Study on Chemical Composition, Physical, Tensile, Morphological, and Thermal Properties of Roselle Fibre: Effect of Fibre Maturity. <i>BioResources</i> , 2014 , 10,	1.3	80
96	Characteristics of thermoplastic sugar palm Starch/Agar blend: Thermal, tensile, and physical properties. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 575-81	7.9	73
95	A decision-making model for selecting the most appropriate natural fiber [Polypropylene-based composites for automotive applications. <i>Journal of Composite Materials</i> , 2016 , 50, 543-556	2.7	72
94	Thermal, Biodegradability and Water Barrier Properties of Bio-Nanocomposites Based on Plasticised Sugar Palm Starch and Nanofibrillated Celluloses from Sugar Palm Fibres. <i>Journal of Biobased Materials and Bioenergy</i> , 2020 , 14, 234-248	1.4	71
93	Predicting the potential of agro waste fibers for sustainable automotive industry using a decision making model. <i>Computers and Electronics in Agriculture</i> , 2015 , 113, 116-127	6.5	69
92	Polylactic Acid (PLA) Biocomposite: Processing, Additive Manufacturing and Advanced Applications. <i>Polymers</i> , 2021 , 13,	4.5	68
91	The Effect of Silane Treated Fibre Loading on Mechanical Properties of Pineapple Leaf/Kenaf Fibre Filler Phenolic Composites. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 1520-1527	4.5	67
90	Decision making model for optimal reinforcement condition of natural fiber composites. <i>Fibers and Polymers</i> , 2015 , 16, 153-163	2	62
89	Mechanical properties of kenaf bast and core fibre reinforced unsaturated polyester composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 11, 012006	0.4	62
88	Combined Multi-criteria Evaluation Stage Technique as an Agro Waste Evaluation Indicator for Polymeric Composites: Date Palm Fibers as a Case Study. <i>BioResources</i> , 2014 , 9,	1.3	61
87	Effect of Alkali and Silane Treatments on Mechanical and Interfacial Bonding Strength of Sugar Palm Fibers with Thermoplastic Polyurethane. <i>Journal of Natural Fibers</i> , 2018 , 15, 251-261	1.8	60
86	The effects of chemical treatment on the structural and thermal, physical, and mechanical and morphological properties of roselle fiber-reinforced vinyl ester composites. <i>Polymer Composites</i> , 2018 , 39, 274-287	3	52
85	Selecting Natural Fibers for Bio-Based Materials with Conflicting Criteria. <i>American Journal of Applied Sciences</i> , 2015 , 12, 64-71	0.8	52
84	Sugar palm nanocrystalline cellulose reinforced sugar palm starch composite: Degradation and water-barrier properties. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 368, 012006	0.4	50
83	Integration of TRIZ, morphological chart and ANP method for development of FRP composite portable fire extinguisher. <i>Polymer Composites</i> , 2020 , 41, 2917-2932	3	49
82	Potential Application of Green Composites for Cross Arm Component in Transmission Tower: A Brief Review. <i>International Journal of Polymer Science</i> , 2020 , 2020, 1-15	2.4	47

81	A Review on Roselle Fiber and Its Composites. <i>Journal of Natural Fibers</i> , 2016 , 13, 10-41	1.8	47
80	A Model for Evaluating and Determining the Most Appropriate Polymer Matrix Type for Natural Fiber Composites. <i>International Journal of Polymer Analysis and Characterization</i> , 2015 , 20, 191-205	1.7	46
79	Effect of pineapple leaf fibre and kenaf fibre treatment on mechanical performance of phenolic hybrid composites. <i>Fibers and Polymers</i> , 2017 , 18, 940-947	2	44
78	Effect of Sugar Palm-derived Cellulose Reinforcement on the Mechanical and Water Barrier Properties of Sugar Palm Starch Biocomposite Films. <i>BioResources</i> , 2016 , 11,	1.3	41
77	The mechanical performance of sugar palm fibres (ijuk) reinforced phenolic composites. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 1001-1008	1.7	39
76	Polymer Composites Filled with Metal Derivatives: A Review of Flame Retardants. <i>Polymers</i> , 2021 , 13,	4.5	38
75	Mechanical properties and fabrication of small boat using woven glass/sugar palm fibres reinforced unsaturated polyester hybrid composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010 , 11, 012015	0.4	37
74	Tensile and Compressive Properties of Woven Kenaf/Glass Sandwich Hybrid Composites. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-6	2.4	35
73	Mechanical properties of hybrid glass/sugar palm fibre reinforced unsaturated polyester composites. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2013 , 31, 1394-1403	3.5	34
72	Natural Fiber Reinforced Composite Material for Product Design: A Short Review. <i>Polymers</i> , 2021 , 13,	4.5	34
71	Flax and sugar palm reinforced epoxy composites: effect of hybridization on physical, mechanical, morphological and dynamic mechanical properties. <i>Materials Research Express</i> , 2019 , 6, 105331	1.7	33
70	Physical, Mechanical, and Morphological Properties of Woven Kenaf/Polymer Composites Produced Using a Vacuum Infusion Technique. <i>International Journal of Polymer Science</i> , 2015 , 2015, 1-10	2.4	32
69	Influence of Fiber Content on Mechanical and Morphological Properties of Woven Kenaf Reinforced PVB Film Produced Using a Hot Press Technique. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-11	2.4	31
68	Effect of Organo-Modified Nanoclay on the Mechanical Properties of Sugar Palm Fiber-reinforced Polyester Composites. <i>BioResources</i> , 2018 , 13,	1.3	30
67	Effect of Alkalization on Mechanical Properties of Water Hyacinth Fibers-Unsaturated Polyester Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2013 , 52, 446-451		29
66	Alkali Treatment of Screw Pine (<i>Pandanus Odoratissimus</i>) Fibers and Its Effect on Unsaturated Polyester Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 12-18		28
65	Effect of Plasticizer Type and Concentration on Dynamic Mechanical Properties of Sugar Palm Starch Based Films. <i>International Journal of Polymer Analysis and Characterization</i> , 2015 , 20, 627-636	1.7	26
64	Critical Determinants of Household Electricity Consumption in a Rapidly Growing City. <i>Sustainability</i> , 2021 , 13, 4441	3.6	24

63	Dynamic mechanical properties of sugar palm/glass fiber reinforced thermoplastic polyurethane hybrid composites. <i>Polymer Composites</i> , 2019 , 40, 1329-1334	3	23
62	Influence of Additional Bracing Arms as Reinforcement Members in Wooden Timber Cross-Arms on Their Long-Term Creep Responses and Properties. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2061	2.6	23
61	Chemical Composition and FT-IR Spectra of Sugar Palm (<i>Arenga pinnata</i>) Fibers Obtained from Different Heights. <i>Journal of Natural Fibers</i> , 2013 , 10, 83-97	1.8	22
60	Mechanical Properties of Screw Pine (<i>Pandanus Odoratissimus</i>) Fibers/Unsaturated Polyester Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 500-506		22
59	Creep test rig for cantilever beam: Fundamentals, prospects and present views. <i>Journal of Mechanical Engineering and Sciences</i> , 2020 , 14, 6869-6887	2	22
58	Material Characterization of Roselle Fibre (<i>Hibiscus sabdariffa</i> L.) as Potential Reinforcement Material for Polymer Composites. <i>Fibres and Textiles in Eastern Europe</i> , 2015 , 23, 23-30	0.9	22
57	Comparison of Static and Long-term Creep Behaviors between Balau Wood and Glass Fiber Reinforced Polymer Composite for Cross-arm Application. <i>Fibres and Polymers</i> , 2021 , 22, 793-803	2	22
56	Utilization of Bracing Arms as Additional Reinforcement in Pultruded Glass Fiber-Reinforced Polymer Composite Cross-Arms: Creep Experimental and Numerical Analyses. <i>Polymers</i> , 2021 , 13,	4.5	22
55	Impregnation modification of sugar palm fibres with phenol formaldehyde and unsaturated polyester. <i>Fibres and Polymers</i> , 2013 , 14, 250-257	2	21
54	Hybridization of MMT/Lignocellulosic Fiber Reinforced Polymer Nanocomposites for Structural Applications: A Review. <i>Coatings</i> , 2021 , 11, 1355	2.9	20
53	Recent advances of thermal properties of sugar palm lignocellulosic fibre reinforced polymer composites. <i>International Journal of Biological Macromolecules</i> , 2021 ,	7.9	20
52	Flexural and Compressive Properties of Hybrid Kenaf/Silica Nanoparticles in Epoxy Composite. <i>Procedia Chemistry</i> , 2016 , 19, 955-960		20
51	Evaluation of Design and Simulation of Creep Test Rig for Full-Scale Crossarm Structure. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-10	1.3	18
50	Mechanical and Thermal Properties of Kenaf Reinforced Thermoplastic Polyurethane (TPU)-Natural Rubber (NR) Composites. <i>Fibres and Polymers</i> , 2018 , 19, 446-451	2	18
49	Characteristics of <i>Eucheuma cottonii</i> waste from East Malaysia: physical, thermal and chemical composition. <i>European Journal of Phycology</i> , 2017 , 52, 200-207	2.2	17
48	IFSS, TG, FT-IR spectra of impregnated sugar palm (<i>Arenga pinnata</i>) fibres and mechanical properties of their composites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 111, 1375-1383	4.1	17
47	Effect of Surface Treatment on the Mechanical Properties of Sugar Palm/Glass Fiber-reinforced Thermoplastic Polyurethane Hybrid Composites. <i>BioResources</i> , 2017 , 13,	1.3	17
46	Potential of Honeycomb-Filled Composite Structure in Composite Cross-Arm Component: A Review on Recent Progress and Its Mechanical Properties. <i>Polymers</i> , 2021 , 13,	4.5	17

45	Sugar Palm Fibre and its Composites: A Review of Recent Developments. <i>BioResources</i> , 2016 , 11,	1.3	17
44	Mechanical and Thermal Properties of Roselle Fibre Reinforced Vinyl Ester Composites. <i>BioResources</i> , 2016 , 11,	1.3	17
43	Reflections on Local Community Identity by Evaluating Heritage Sustainability Protection in Jugra, Selangor, Malaysia. <i>Sustainability</i> , 2021 , 13, 8705	3.6	17
42	Use of Industrial Wastes as Sustainable Nutrient Sources for Bacterial Cellulose (BC) Production: Mechanism, Advances, and Future Perspectives. <i>Polymers</i> , 2021 , 13,	4.5	16
41	Effect of Treatments on the Physical and Morphological Properties of SPF/Phenolic Composites. <i>Journal of Natural Fibers</i> , 2017 , 14, 645-657	1.8	15
40	The effect of winding angles on crushing behavior of filament wound hollow kenaf yarn fibre reinforced unsaturated polyester composites. <i>Fibers and Polymers</i> , 2015 , 16, 2266-2275	2	15
39	Seaweeds as Renewable Sources for Biopolymers and its Composites: A Review. <i>Current Analytical Chemistry</i> , 2018 , 14, 249-267	1.7	13
38	The Effect of Customized Woven and Stacked Layer Orientation on Tensile and Flexural Properties of Woven Kenaf Fibre Reinforced Epoxy Composites. <i>International Journal of Polymer Science</i> , 2016 , 2016, 1-11	2.4	13
37	Dynamic Mechanical Analysis of Treated and Untreated Sugar Palm Fibre-based Phenolic Composites. <i>BioResources</i> , 2017 , 12,	1.3	12
36	Lateral crushing properties of non-woven kenaf (mat)-reinforced epoxy composite hexagonal tubes. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 965-972	1.7	12
35	Effect of Fibre Loading on the Physical, Mechanical and Thermal Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composites. <i>Fibers and Polymers</i> , 2019 , 20, 1077-1084	2	11
34	Monotonic and fatigue properties of kenaf /glass hybrid composites under fully reversed cyclic loading. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 100, 012055	0.4	11
33	Impacts of Photovoltaic Distributed Generation Location and Size on Distribution Power System Network. <i>International Journal of Power Electronics and Drive Systems</i> , 2018 , 9, 905	1.5	10
32	Effect of Silica Aerogel Additive on Mechanical Properties of the Sugar Palm Fiber-Reinforced Polyester Composites. <i>International Journal of Polymer Science</i> , 2019 , 2019, 1-4	2.4	10
31	Hybrid and Nonhybrid Laminate Composites of Sugar Palm and Glass Fibre-Reinforced Polypropylene: Effect of Alkali and Sodium Bicarbonate Treatments. <i>International Journal of Polymer Science</i> , 2019 , 2019, 1-12	2.4	9
30	Filament-wound glass-fibre reinforced polymer composites: Potential applications for cross arm structure in transmission towers. <i>Polymer Bulletin</i> , ¹	2.4	9
29	Product Development of Natural Fibre-Composites for Various Applications: Design for Sustainability.. <i>Polymers</i> , 2022 , 14,	4.5	9
28	Mechanical and Thermal Properties of Sugar Palm Fiber Reinforced Thermoplastic Polyurethane Composites: Effect of Silane Treatment and Fiber Loading. <i>Journal of Renewable Materials</i> , 2017 ,	2.4	8

27	Fire Retardant Performance of Rice Husk Ash-Based Geopolymer Coated Mild Steel - A Factorial Design and Microstructure Analysis. <i>Materials Science Forum</i> , 2016 , 841, 48-54	0.4	7
26	Energy absorption capacities of kenaf fibre-reinforced epoxy composite elliptical cones with circumferential holes. <i>Fibers and Polymers</i> , 2017 , 18, 1187-1192	2	6
25	Mechanical properties of kenaf fiber thermoplastic polyurethane-natural rubber composites. <i>Polimery</i> , 2018 , 63, 524-530	3.4	6
24	Dimensional stability of pineapple leaf fibre reinforced phenolic composites 2017 ,		5
23	An investigation on longitudinal residual strains distribution of thin-walled press-braked cold formed steel sections using 3D FEM technique. <i>Heliyon</i> , 2018 , 4, e00937	3.6	5
22	Effect of Soil Burial on Physical, Mechanical and Thermal Properties of Sugar Palm Fibre Reinforced Vinyl Ester Composites. <i>Fibers and Polymers</i> , 2019 , 20, 1893-1899	2	4
21	Influence of resin system on the energy absorption capability and morphological properties of plain woven kenaf composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 100, 012053	0.4	4
20	On the Effects of Geometrical Shapes in Failure Modes in Natural [Conventional Fiber Reinforced Composite Tube: A Review. <i>Current Analytical Chemistry</i> , 2018 , 14, 241-248	1.7	4
19	Thermal and physicochemical properties of sugar palm fibre treated with borax. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 368, 012038	0.4	4
18	Physical properties of silane-treated sugar palm fiber reinforced thermoplastic polyurethane composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 368, 012047	0.4	4
17	Mathematical Modeling and Analysis of Tribological Properties of AA6063 Aluminum Alloy Reinforced with Fly Ash by Using Response Surface Methodology. <i>Crystals</i> , 2020 , 10, 403	2.3	3
16	Hybridization of TRIZ and CAD-analysis at the conceptual design stage.. <i>International Journal of Computer Integrated Manufacturing</i> , 2019 , 32, 890-899	4.3	3
15	Tensile Properties of Kenaf Yarn Fibre Reinforced Unsaturated Polyester Composites at Different Fibre Orientations. <i>Applied Mechanics and Materials</i> , 2014 , 564, 412-417	0.3	3
14	Mechanical, Interfacial and Thermal Properties of Silica Aerogel-Infused Flax/Epoxy Composites. <i>International Polymer Processing</i> , 2021 , 36, 53-59	1	3
13	Potential of Flax Fiber Reinforced Biopolymer Composites for Cross-Arm Application in Transmission Tower: A Review. <i>Fibers and Polymers</i> , 2022 , 23, 853-877	2	3
12	Application of Taguchi Method to Optimize the Parameter of Fused Deposition Modeling (FDM) Using Oil Palm Fiber Reinforced Thermoplastic Composites. <i>Polymers</i> , 2022 , 14, 2140	4.5	3
11	Rheological and Morphological Properties of Oil Palm Fiber-Reinforced Thermoplastic Composites for Fused Deposition Modeling (FDM). <i>Polymers</i> , 2021 , 13,	4.5	2
10	Experimental Investigation on the Mechanical Properties of a Sandwich Structure Made of Flax/Glass Hybrid Composite Facesheet and Honeycomb Core. <i>International Journal of Polymer Science</i> , 2021 , 2021, 1-10	2.4	2

9	Water absorption analysis on impregnated kenaf with nanosilica for epoxy/kenaf composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 405, 012013	0.4	2
8	Kenaf Fibre: Its Potential and Review on Bending Fatigue of Hollow Shaft Composites. <i>Applied Mechanics and Materials</i> , 2014 , 629, 395-398	0.3	1
7	Effect of Kevlar and carbon fibres on tensile properties of oil palm/epoxy composites 2017 ,		1
6	Advanced Composite in Aerospace Applications: Opportunities, Challenges, and Future Perspective 2022 , 471-498		1
5	Fire Retardant Properties of Bio-phenolic Hybrid Composites 2021 , 111-121		0
4	A Review on the Self-Energize Structural Health Monitoring (SHM) in Vertical Axis Wind Turbine (VAWT) System. <i>Applied Mechanics and Materials</i> , 2014 , 564, 157-163	0.3	
3	Experimental Quasi-Static Axial Crushing of Non-Woven Kenaf Fibre/Epoxy Hexagonal Composite Tubes. <i>Applied Mechanics and Materials</i> , 2014 , 564, 361-365	0.3	
2	Chapter 4:Natural Fibre-reinforced Thermoplastic Starch Composites. <i>RSC Green Chemistry</i> , 2015 , 109-142		9
1	Comparative Investigation on the Failure Modes of Natural Kenaf/Epoxy Reinforced Composite Hexagonal Tubes. <i>Key Engineering Materials</i> , 2016 , 709, 7-10	0.4	