

# R A Ilyas

## List of Publications by Year in descending order

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317  
papers

17,574  
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8755

75  
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345  
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345  
docs citations

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times ranked

6732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isolation and characterization of nanocrystalline cellulose from sugar palm fibres ( <i>Arenga Pinnata</i> ). <i>Carbohydrate Polymers</i> , 2018, 181, 1038-1051.	10.2	384
2	Development and characterization of sugar palm nanocrystalline cellulose reinforced sugar palm starch bionanocomposites. <i>Carbohydrate Polymers</i> , 2018, 202, 186-202.	10.2	342
3	Mechanical properties of hybrid kenaf/glass reinforced epoxy composite for passenger car bumper beam. <i>Materials &amp; Design</i> , 2010, 31, 4927-4932.	5.1	316
4	Mechanical properties of pineapple leaf fibre reinforced polypropylene composites. <i>Materials &amp; Design</i> , 2006, 27, 391-396.	5.1	287
5	Influence of fiber content on the mechanical and thermal properties of Kenaf fiber reinforced thermoplastic polyurethane composites. <i>Materials &amp; Design</i> , 2012, 40, 299-303.	5.1	278
6	Mechanical properties of woven banana fibre reinforced epoxy composites. <i>Materials &amp; Design</i> , 2006, 27, 689-693.	5.1	276
7	The effect of alkaline treatment on tensile properties of sugar palm fibre reinforced epoxy composites. <i>Materials &amp; Design</i> , 2008, 29, 1285-1290.	5.1	242
8	Effect of layering sequence and chemical treatment on the mechanical properties of woven kenaf-aramid hybrid laminated composites. <i>Materials &amp; Design</i> , 2015, 67, 173-179.	5.1	232
9	A Review on Natural Fiber Reinforced Polymer Composite for Bullet Proof and Ballistic Applications. <i>Polymers</i> , 2021, 13, 646.	4.5	213
10	Polylactic Acid (PLA) Biocomposite: Processing, Additive Manufacturing and Advanced Applications. <i>Polymers</i> , 2021, 13, 1326.	4.5	208
11	Transparent and antimicrobial cellulose film from ginger nanofiber. <i>Food Hydrocolloids</i> , 2020, 98, 105266.	10.7	197
12	Sugar palm ( <i>Arenga pinnata</i> (Wurmb.) Merr) cellulosic fibre hierarchy: a comprehensive approach from macro to nano scale. <i>Journal of Materials Research and Technology</i> , 2019, 8, 2753-2766.	5.8	195
13	Fabrication, Functionalization, and Application of Carbon Nanotube-Reinforced Polymer Composite: An Overview. <i>Polymers</i> , 2021, 13, 1047.	4.5	195
14	Fibre properties and crashworthiness parameters of natural fibre-reinforced composite structure: A literature review. <i>Composite Structures</i> , 2016, 148, 59-73.	5.8	194
15	Micro- and Nanocellulose in Polymer Composite Materials: A Review. <i>Polymers</i> , 2021, 13, 231.	4.5	192
16	Sugar palm ( <i>Arenga pinnata</i> ): Its fibres, polymers and composites. <i>Carbohydrate Polymers</i> , 2013, 91, 699-710.	10.2	191
17	Sugar palm nanofibrillated cellulose ( <i>Arenga pinnata</i> (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.	7.5	191
18	Nanocrystalline Cellulose as Reinforcement for Polymeric Matrix Nanocomposites and its Potential Applications: A Review. <i>Current Analytical Chemistry</i> , 2018, 14, 203-225.	1.2	190

#	ARTICLE	IF	CITATIONS
19	Effect of sugar palm nanofibrillated cellulose concentrations on morphological, mechanical and physical properties of biodegradable films based on agro-waste sugar palm ( <i>Arenga pinnata</i> (Wurmb.)) Tj ETQq1 1 @.384314 rgBT /Over	5.1	177
20	Hybrid natural and glass fibers reinforced polymer composites material selection using Analytical Hierarchy Process for automotive brake lever design. <i>Materials &amp; Design</i> , 2013, 51, 484-492.	5.1	177
21	Natural fiber reinforced conductive polymer composites as functional materials: A review. <i>Synthetic Metals</i> , 2015, 206, 42-54.	3.9	177
22	Potential of Natural Fiber Reinforced Polymer Composites in Sandwich Structures: A Review on Its Mechanical Properties. <i>Polymers</i> , 2021, 13, 423.	4.5	173
23	Nanocellulose Reinforced Thermoplastic Starch (TPS), Polylactic Acid (PLA), and Polybutylene Succinate (PBS) for Food Packaging Applications. <i>Frontiers in Chemistry</i> , 2020, 8, 213.	3.6	167
24	A simple method for improving the properties of the sago starch films prepared by using ultrasonication treatment. <i>Food Hydrocolloids</i> , 2019, 93, 276-283.	10.7	166
25	Effect of delignification on the physical, thermal, chemical, and structural properties of sugar palm fibre. <i>BioResources</i> , 2017, 12, 8734-8754.	1.0	163
26	Recent developments in sugar palm ( <i>Arenga pinnata</i> ) based biocomposites and their potential industrial applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 54, 533-549.	16.4	157
27	Natural Fiber-Reinforced Polylactic Acid, Polylactic Acid Blends and Their Composites for Advanced Applications. <i>Polymers</i> , 2022, 14, 202.	4.5	157
28	Development and characterization of sugar palm starch and poly(lactic acid) bilayer films. <i>Carbohydrate Polymers</i> , 2016, 146, 36-45.	10.2	150
29	Influence of fiber content on mechanical, morphological and thermal properties of kenaf fibers reinforced poly(vinyl chloride)/thermoplastic polyurethane poly-blend composites. <i>Materials &amp; Design</i> , 2014, 58, 130-135.	5.1	143
30	A Review on Mechanical Performance of Hybrid Natural Fiber Polymer Composites for Structural Applications. <i>Polymers</i> , 2021, 13, 2170.	4.5	143
31	Thermogravimetric Analysis Properties of Cellulosic Natural Fiber Polymer Composites: A Review on Influence of Chemical Treatments. <i>Polymers</i> , 2021, 13, 2710.	4.5	143
32	Concept selection of car bumper beam with developed hybrid bio-composite material. <i>Materials &amp; Design</i> , 2011, 32, 4857-4865.	5.1	137
33	Mechanical and thermal properties of environmentally friendly composites derived from sugar palm tree. <i>Materials &amp; Design</i> , 2013, 49, 285-289.	5.1	137
34	Sugar palm ( <i>Arenga pinnata</i> ) [ <i>Wurmb</i> .] <i>Merr</i> ) starch films containing sugar palm nanofibrillated cellulose as reinforcement: Water barrier properties. <i>Polymer Composites</i> , 2020, 41, 459-467.	4.6	129
35	Cassava/sugar palm fiber reinforced cassava starch hybrid composites: Physical, thermal and structural properties. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 75-83.	7.5	128
36	Hybrid reinforced thermoset polymer composite in energy absorption tube application: A review. <i>Defence Technology</i> , 2018, 14, 291-305.	4.2	128

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37	Effect of sonication time on the thermal stability, moisture absorption, and biodegradation of water hyacinth ( <i>Eichhornia crassipes</i> ) nanocellulose-filled bengkuang ( <i>Pachyrhizus erosus</i> ) starch biocomposites. <i>Journal of Materials Research and Technology</i> , 2019, 8, 6223-6231.	5.8	128
38	Effect of hydrolysis time on the morphological, physical, chemical, and thermal behavior of sugar palm nanocrystalline cellulose ( <i>Arenga pinnata</i> (Wurmb.) Merr.). <i>Textile Research Journal</i> , 2021, 91, 152-167.	2.2	127
39	A Comprehensive Review on Advanced Sustainable Woven Natural Fibre Polymer Composites. <i>Polymers</i> , 2021, 13, 471.	4.5	127
40	Mechanical, thermal and morphological properties of durian skin fibre reinforced PLA biocomposites. <i>Materials &amp; Design</i> , 2014, 59, 279-286.	5.1	123
41	Effect of cogon grass fibre on the thermal, mechanical and biodegradation properties of thermoplastic cassava starch biocomposite. <i>International Journal of Biological Macromolecules</i> , 2020, 146, 746-755.	7.5	122
42	Physical and thermal properties of treated sugar palm/glass fibre reinforced thermoplastic polyurethane hybrid composites. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3726-3732.	5.8	121
43	Antimicrobial Activities of Starch-Based Biopolymers and Biocomposites Incorporated with Plant Essential Oils: A Review. <i>Polymers</i> , 2020, 12, 2403.	4.5	121
44	Natural Fiber-Reinforced Polycaprolactone Green and Hybrid Biocomposites for Various Advanced Applications. <i>Polymers</i> , 2022, 14, 182.	4.5	121
45	Thermo-mechanical behaviors of thermoplastic starch derived from sugar palm tree ( <i>Arenga pinnata</i> ). <i>Carbohydrate Polymers</i> , 2013, 92, 1711-1716.	10.2	120
46	Mechanical performance of woven kenaf-Kevlar hybrid composites. <i>Journal of Reinforced Plastics and Composites</i> , 2014, 33, 2242-2254.	3.1	119
47	Thermal properties of treated sugar palm yarn/glass fiber reinforced unsaturated polyester hybrid composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1606-1618.	5.8	119
48	Effect of ultrasonication duration of polyvinyl alcohol (PVA) gel on characterizations of PVA film. <i>Journal of Materials Research and Technology</i> , 2020, 9, 2477-2486.	5.8	118
49	Thermal Properties of Woven Kenaf/Carbon Fibre-Reinforced Epoxy Hybrid Composite Panels. <i>International Journal of Polymer Science</i> , 2019, 2019, 1-8.	2.7	117
50	Physical Properties of Thermoplastic Starch Derived from Natural Resources and Its Blends: A Review. <i>Polymers</i> , 2021, 13, 1396.	4.5	116
51	Recent Trends and Developments in Conducting Polymer Nanocomposites for Multifunctional Applications. <i>Polymers</i> , 2021, 13, 2898.	4.5	116
52	Natural-Fiber-Reinforced Chitosan, Chitosan Blends and Their Nanocomposites for Various Advanced Applications. <i>Polymers</i> , 2022, 14, 874.	4.5	110
53	Design and fabrication of natural woven fabric reinforced epoxy composite for household telephone stand. <i>Materials &amp; Design</i> , 2005, 26, 65-71.	5.1	106
54	Mechanical properties of soil buried kenaf fibre reinforced thermoplastic polyurethane composites. <i>Materials &amp; Design</i> , 2013, 50, 467-470.	5.1	105

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55	Critical Review of Biodegradable and Bioactive Polymer Composites for Bone Tissue Engineering and Drug Delivery Applications. <i>Polymers</i> , 2021, 13, 2623.	4.5	104
56	Pyrolysis of polypropylene plastic waste into carbonaceous char: Priority of plastic waste management amidst COVID-19 pandemic. <i>Science of the Total Environment</i> , 2022, 803, 149911.	8.0	104
57	Woods and composites cantilever beam: A comprehensive review of experimental and numerical creep methodologies. <i>Journal of Materials Research and Technology</i> , 2020, 9, 6759-6776.	5.8	102
58	Polymer Composites Filled with Metal Derivatives: A Review of Flame Retardants. <i>Polymers</i> , 2021, 13, 1701.	4.5	101
59	Mechanical Performance and Applications of CNTs Reinforced Polymer Composites—A Review. <i>Nanomaterials</i> , 2021, 11, 2186.	4.1	101
60	Characteristics of thermoplastic sugar palm Starch/Agar blend: Thermal, tensile, and physical properties. <i>International Journal of Biological Macromolecules</i> , 2016, 89, 575-581.	7.5	100
61	Conceptual design of kenaf fiber polymer composite automotive parking brake lever using integrated TRIZ—Morphological Chart—Analytic Hierarchy Process method. <i>Materials &amp; Design</i> , 2014, 54, 473-482.	5.1	97
62	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.	0.3	94
63	The Preparation Methods and Processing of Natural Fibre Bio-polymer Composites. <i>Current Organic Synthesis</i> , 2020, 16, 1068-1070.	1.3	93
64	Mechanical properties of oil palm fibre-reinforced polymer composites: a review. <i>Journal of Materials Research and Technology</i> , 2022, 17, 33-65.	5.8	92
65	Quasi-static penetration and ballistic properties of kenaf—aramid hybrid composites. <i>Materials &amp; Design</i> , 2014, 63, 775-782.	5.1	90
66	Biopolymers and Biocomposites: Chemistry and Technology. <i>Current Analytical Chemistry</i> , 2020, 16, 500-503.	1.2	88
67	Natural Fiber Reinforced Composite Material for Product Design: A Short Review. <i>Polymers</i> , 2021, 13, 1917.	4.5	88
68	Mechanical Properties of Longitudinal Basalt/Woven-Glass-Fiber-reinforced Unsaturated Polyester-Resin Hybrid Composites. <i>Polymers</i> , 2020, 12, 2211.	4.5	87
69	Critical Review of Natural Fiber Reinforced Hybrid Composites: Processing, Properties, Applications and Cost. <i>Polymers</i> , 2021, 13, 3514.	4.5	85
70	Highly transparent and antimicrobial PVA based bionanocomposites reinforced by ginger nanofiber. <i>Polymer Testing</i> , 2020, 81, 106186.	4.8	83
71	Characterization Study of Empty Fruit Bunch (EFB) Fibers Reinforcement in Poly(Butylene) Succinate (PBS)/Starch/Glycerol Composite Sheet. <i>Polymers</i> , 2020, 12, 1571.	4.5	81
72	Water absorption, thickness swelling and thermal properties of roselle/sugar palm fibre reinforced thermoplastic polyurethane hybrid composites. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3988-3994.	5.8	80

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73	The Effects of Silver Nanoparticles Compositions on the Mechanical, Physiochemical, Antibacterial, and Morphology Properties of Sugar Palm Starch Biocomposites for Antibacterial Coating. <i>Polymers</i> , 2020, 12, 2605.	4.5	80
74	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.	2.7	80
75	Effect of duration of sonication during gelatinization on properties of tapioca starch water hyacinth fiber biocomposite. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 167-176.	7.5	79
76	The effect of water immersion and fibre content on properties of corn husk fibres reinforced thermoset polyester composite. <i>Polymer Testing</i> , 2020, 91, 106751.	4.8	79
77	Antimicrobial activity, physical, mechanical and barrier properties of sugar palm based nanocellulose/starch biocomposite films incorporated with cinnamon essential oil. <i>Journal of Materials Research and Technology</i> , 2021, 11, 144-157.	5.8	79
78	Mechanical properties of sugar palm yarn/woven glass fiber reinforced unsaturated polyester composites: effect of fiber loadings and alkaline treatment. <i>Polimery</i> , 2019, 64, 665-675.	0.7	79
79	Effect of sago starch and plasticizer content on the properties of thermoplastic films: mechanical testing and cyclic soaking-drying. <i>Polimery</i> , 2019, 64, 422-431.	0.7	79
80	Integration of <scp>TRIZ</scp>, morphological chart and <scp>ANP</scp> method for development of <scp>FRP</scp> composite portable fire extinguisher. <i>Polymer Composites</i> , 2020, 41, 2917-2932.	4.6	78
81	Shrinkages and warpage in the processability of wood-filled polypropylene composite thin-walled parts formed by injection molding. <i>Materials &amp; Design</i> , 2013, 52, 1018-1026.	5.1	77
82	Effect of Nanofillers on Tribological Properties of Polymer Nanocomposites: A Review on Recent Development. <i>Polymers</i> , 2021, 13, 2867.	4.5	77
83	A review of nanocellulose adsorptive membrane as multifunctional wastewater treatment. <i>Carbohydrate Polymers</i> , 2022, 291, 119563.	10.2	77
84	Effect of polybutylene terephthalate (PBT) on impact property improvement of hybrid kenaf/glass epoxy composite. <i>Materials Letters</i> , 2012, 67, 5-7.	2.6	73
85	Sugar Palm Starch-Based Composites for Packaging Applications. , 2018, , 125-147.		73
86	Potential of using multiscale corn husk fiber as reinforcing filler in cornstarch-based biocomposites. <i>International Journal of Biological Macromolecules</i> , 2019, 139, 596-604.	7.5	73
87	Emerging development of nanocellulose as an antimicrobial material: an overview. <i>Materials Advances</i> , 2021, 2, 3538-3551.	5.4	72
88	Recent developments in sustainable arrowroot ( <i>Maranta arundinacea</i> Linn) starch biopolymers, fibres, biopolymer composites and their potential industrial applications: A review. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1191-1219.	5.8	71
89	Degradation and physical properties of sugar palm starch/sugar palm nanofibrillated cellulose bionanocomposite. <i>Polimery</i> , 2019, 64, 680-689.	0.7	71
90	Optimization of tensile behavior of banana pseudo-stem ( <i>Musa acuminata</i> ) fiber reinforced epoxy composites using response surface methodology. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3517-3528.	5.8	70

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91	Thermal properties of sugar palm/glass fiber reinforced thermoplastic polyurethane hybrid composites. <i>Composite Structures</i> , 2018, 202, 954-958.	5.8	69
92	The Effects of Unbleached and Bleached Nanocellulose on the Thermal and Flammability of Polypropylene-Reinforced Kenaf Core Hybrid Polymer Bionanocomposites. <i>Polymers</i> , 2021, 13, 116.	4.5	69
93	Conceptual design of a polymer composite automotive bumper energy absorber. <i>Materials &amp; Design</i> , 2008, 29, 1447-1452.	5.1	68
94	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.	4.6	67
95	Physical, thermal, morphological, and tensile properties of cornstarch-based films as affected by different plasticizers. <i>International Journal of Food Properties</i> , 2019, 22, 925-941.	3.0	67
96	Delamination and Manufacturing Defects in Natural Fiber-Reinforced Hybrid Composite: A Review. <i>Polymers</i> , 2021, 13, 1323.	4.5	67
97	Use of Industrial Wastes as Sustainable Nutrient Sources for Bacterial Cellulose (BC) Production: Mechanism, Advances, and Future Perspectives. <i>Polymers</i> , 2021, 13, 3365.	4.5	67
98	Antimicrobial Edible Film Prepared from Bacterial Cellulose Nanofibers/Starch/Chitosan for a Food Packaging Alternative. <i>International Journal of Polymer Science</i> , 2021, 2021, 1-11.	2.7	66
99	Conceptual design of automobile engine rubber mounting composite using TRIZ-Morphological chart-analytic network process technique. <i>Defence Technology</i> , 2018, 14, 268-277.	4.2	65
100	Effect of fiber orientation and fiber loading on the mechanical and thermal properties of sugar palm yarn fiber reinforced unsaturated polyester resin composites. <i>Polimery</i> , 2020, 65, 115-124.	0.7	64
101	Critical Review on Polylactic Acid: Properties, Structure, Processing, Biocomposites, and Nanocomposites. <i>Materials</i> , 2022, 15, 4312.	2.9	64
102	A note on the conceptual design of polymeric composite automotive bumper system. <i>Journal of Materials Processing Technology</i> , 2005, 159, 145-151.	6.3	62
103	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.	0.6	62
104	Preparation and characterization of cornhusk/sugar palm fiber reinforced Cornstarch-based hybrid composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 200-211.	5.8	62
105	Dynamic mechanical properties of natural fiber reinforced hybrid polymer composites: a review. <i>Journal of Materials Research and Technology</i> , 2022, 19, 167-182.	5.8	62
106	Measurement of ballistic impact properties of woven kenaf-aramid hybrid composites. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 77, 335-343.	5.0	60
107	Conceptual design of creep testing rig for full-scale cross arm using TRIZ-Morphological chart-analytic network process technique. <i>Journal of Materials Research and Technology</i> , 2019, 8, 5647-5658.	5.8	60
108	Hybridization of MMT/Lignocellulosic Fiber Reinforced Polymer Nanocomposites for Structural Applications: A Review. <i>Coatings</i> , 2021, 11, 1355.	2.6	60

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109	3D Printing and Shaping Polymers, Composites, and Nanocomposites: A Review. <i>Polymers</i> , 2022, 14, 180.	4.5	60
110	Design and fabrication of low cost filament winding machine. <i>Materials &amp; Design</i> , 2007, 28, 234-239.	5.1	59
111	Water absorption and water solubility properties of sago starch biopolymer composite films filled with sugar palm particles. <i>Polimery</i> , 2019, 64, 596-604.	0.7	58
112	A prototype knowledge-based system for the material selection of polymeric-based composites for automotive components. <i>Composites Part A: Applied Science and Manufacturing</i> , 1998, 29, 731-742.	7.6	57
113	Flammability, Tensile, and Morphological Properties of Oil Palm Empty Fruit Bunches Fiber/Pet Yarn-Reinforced Epoxy Fire Retardant Hybrid Polymer Composites. <i>Polymers</i> , 2021, 13, 1282.	4.5	57
114	Thermal degradation of banana pseudo-stem filled unplasticized polyvinyl chloride (UPVC) composites. <i>Materials &amp; Design</i> , 2009, 30, 557-562.	5.1	56
115	Characteristic of composite bioplastics from tapioca starch and sugarcane bagasse fiber: Effect of time duration of ultrasonication (Bath-Type). <i>Materials Today: Proceedings</i> , 2021, 46, 1626-1630.	1.8	56
116	Effect of plasticizers on physical, thermal, and tensile properties of thermoplastic films based on <i>Dioscorea hispida</i> starch. <i>International Journal of Biological Macromolecules</i> , 2021, 185, 219-228.	7.5	56
117	Recent applications of carbon-based composites in defence industry: A review. <i>Defence Technology</i> , 2022, 18, 1281-1300.	4.2	56
118	Effects of Fabric Counts and Weave Designs on the Properties of Laminated Woven Kenaf/Carbon Fibre Reinforced Epoxy Hybrid Composites. <i>Polymers</i> , 2018, 10, 1320.	4.5	55
119	Physical and mechanical properties of polyvinylidene fluoride - Short sugar palm fiber nanocomposites. <i>Journal of Cleaner Production</i> , 2019, 235, 473-482.	9.3	55
120	Treatments of natural fiber as reinforcement in polymer composites—a short review. <i>Functional Composites and Structures</i> , 2021, 3, 024002.	3.4	55
121	Corn Starch ( <i>Zea mays</i> ) Biopolymer Plastic Reaction in Combination with Sorbitol and Glycerol. <i>Polymers</i> , 2021, 13, 242.	4.5	54
122	Critical Determinants of Household Electricity Consumption in a Rapidly Growing City. <i>Sustainability</i> , 2021, 13, 4441.	3.2	53
123	Recent advances of thermal properties of sugar palm lignocellulosic fibre reinforced polymer composites. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1587-1599.	7.5	53
124	Product Development of Natural Fibre-Composites for Various Applications: Design for Sustainability. <i>Polymers</i> , 2022, 14, 920.	4.5	53
125	Optimization of FFF Process Parameters by Naked Mole-Rat Algorithms with Enhanced Exploration and Exploitation Capabilities. <i>Polymers</i> , 2021, 13, 1702.	4.5	52
126	Fibre prestressed polymer-matrix composites: a review. <i>Journal of Composite Materials</i> , 2017, 51, 39-66.	2.4	49



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127	Conceptual design of multi-operation outdoor flexural creep test rig using hybrid concurrent engineering approach. <i>Journal of Materials Research and Technology</i> , 2020, 9, 2357-2368.	5.8	48
128	Mechanical Properties of Sugar Palm Fibre Reinforced High Impact Polystyrene Composites. <i>Procedia Chemistry</i> , 2012, 4, 101-106.	0.7	47
129	Moisture Absorption and Thickness Swelling Behaviour of Sugar Palm Fibre Reinforced Thermoplastic Polyurethane. <i>Procedia Engineering</i> , 2017, 184, 581-586.	1.2	46
130	An experimental review on the mechanical properties and hygrothermal behaviour of fibre metal laminates. <i>Journal of Reinforced Plastics and Composites</i> , 2017, 36, 72-82.	3.1	46
131	Processing and Characterisation of Banana Leaf Fibre Reinforced Thermoplastic Cassava Starch Composites. <i>Polymers</i> , 2021, 13, 1420.	4.5	46
132	Surface modifications of cellulose nanocrystals: Processes, properties, and applications. <i>Food Hydrocolloids</i> , 2022, 130, 107689.	10.7	46
133	The influence of equi-biaxially fabric prestressing on the flexural performance of woven E-glass/polyester-reinforced composites. <i>Journal of Composite Materials</i> , 2016, 50, 3385-3393.	2.4	45
134	A New Approach to Use Arenga Pinnata as Sustainable Biopolymer: Effects of Plasticizers on Physical Properties. <i>Procedia Chemistry</i> , 2012, 4, 254-259.	0.7	44
135	Effects of kenaf contents and fiber orientation on physical, mechanical, and morphological properties of hybrid laminated composites for vehicle spall liners. <i>Polymer Composites</i> , 2015, 36, 1469-1476.	4.6	44
136	Characterization studies of biopolymeric matrix and cellulose fibres based composites related to functionalized fibre-matrix interface. , 2020, , 29-93.		43
137	Effects of the liquid natural rubber (LNR) on mechanical properties and microstructure of epoxy/silica/kenaf hybrid composite for potential automotive applications. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1026-1038.	5.8	43
138	Effects of Benzoyl Treatment on NaOH Treated Sugar Palm Fiber: Tensile, Thermal, and Morphological Properties. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5805-5814.	5.8	42
139	Kenaf Fiber/Pet Yarn Reinforced Epoxy Hybrid Polymer Composites: Morphological, Tensile, and Flammability Properties. <i>Polymers</i> , 2021, 13, 1532.	4.5	42
140	Isolation and characterization of cellulose nanofibers from <i>Agave gigantea</i> by chemical-mechanical treatment. <i>International Journal of Biological Macromolecules</i> , 2022, 200, 25-33.	7.5	42
141	Development and Characterization of Physical Modified Pearl Millet Starch-Based Films. <i>Foods</i> , 2021, 10, 1609.	4.3	41
142	Effect of Chemically Treated Kenaf Fibre on Mechanical and Thermal Properties of PLA Composites Prepared through Fused Deposition Modeling (FDM). <i>Polymers</i> , 2021, 13, 3299.	4.5	41
143	Water barrier and mechanical properties of sugar palm crystalline nanocellulose reinforced thermoplastic sugar palm starch (TPS)/poly(lactic acid) (PLA) blend bionanocomposites. <i>Nanotechnology Reviews</i> , 2021, 10, 431-442.	5.8	40
144	Preparation and characterization of starch-based biocomposite films reinforced by <i>Dioscorea hispida</i> fibers. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1342-1355.	5.8	40

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145	Conceptual design of the cross-arm for the application in the transmission towers by using TRIZâ€™ morphological chartâ€™ ANP methods. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9182-9188.	5.8	39
146	Performance evaluation of cellulose nanofiber reinforced polymer composites. <i>Functional Composites and Structures</i> , 2021, 3, 024001.	3.4	39
147	Greener Pretreatment Approaches for the Valorisation of Natural Fibre Biomass into Bioproducts. <i>Polymers</i> , 2021, 13, 2971.	4.5	39
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