

Muhammad Asyraf Muhammad Rizal

List of Publications by Year in descending order

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1067
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#	ARTICLE	IF	CITATIONS
1	Filament-wound glass-fibre reinforced polymer composites: Potential applications for cross arm structure in transmission towers. <i>Polymer Bulletin</i> , 2023, 80, 1059-1084.	3.3	33
2	Oxygen permeability properties of nanocellulose reinforced biopolymer nanocomposites. <i>Materials Today: Proceedings</i> , 2022, 52, 2414-2419.	1.8	16
3	Design for Safety in Composites. <i>Composites Science and Technology</i> , 2022, , 95-113.	0.6	0
4	Composites and Biocomposites: Manufacturing and Processing. <i>Composites Science and Technology</i> , 2022, , 15-33.	0.6	0
5	Safety in Composite Laboratory. <i>Composites Science and Technology</i> , 2022, , 67-94.	0.6	0
6	Natural Fiber-Reinforced Polylactic Acid, Polylactic Acid Blends and Their Composites for Advanced Applications. <i>Polymers</i> , 2022, 14, 202.	4.5	157
7	Natural Fiber-Reinforced Polycaprolactone Green and Hybrid Biocomposites for Various Advanced Applications. <i>Polymers</i> , 2022, 14, 182.	4.5	121
8	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
9	Advanced Composite in Aerospace Applications: Opportunities, Challenges, and Future Perspective. , 2022, , 471-498.		9
10	Introduction to nanocellulose production from biological waste. , 2022, , 1-37.		2
11	Natural-Fiber-Reinforced Chitosan, Chitosan Blends and Their Nanocomposites for Various Advanced Applications. <i>Polymers</i> , 2022, 14, 874.	4.5	110
12	Product Development of Natural Fibre-Composites for Various Applications: Design for Sustainability. <i>Polymers</i> , 2022, 14, 920.	4.5	53
13	Flexural Creep Behaviour of Pultruded GFRP Composites Cross-Arm: A Comparative Study on the Effects of Stacking Sequence. <i>Polymers</i> , 2022, 14, 1330.	4.5	25
14	Mechanical performance evaluation of bamboo fibre reinforced polymer composites and its applications: a review. <i>Functional Composites and Structures</i> , 2022, 4, 015009.	3.4	22
15	Impact of Process Variables of Acetone Vapor Jet Drilling on Surface Roughness and Circularity of 3D-Printed ABS Parts: Fabrication and Studies on Thermal, Morphological, and Chemical Characterizations. <i>Polymers</i> , 2022, 14, 1367.	4.5	12
16	Comparative Drug Release Investigations for Diclofenac Sodium Drug (DS) by Chitosan-Based Grafted and Crosslinked Copolymers. <i>Materials</i> , 2022, 15, 2404.	2.9	14
17	Effect of Marble Dust on the Mechanical, Morphological, and Wear Performance of Basalt Fibre-Reinforced Epoxy Composites for Structural Applications. <i>Polymers</i> , 2022, 14, 1325.	4.5	36
18	Preference Index of Sustainable Natural Fibers in Stone Matrix Asphalt Mixture Using Waste Marble. <i>Materials</i> , 2022, 15, 2729.	2.9	16

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19	Performance Analysis of Full Assembly Glass Fiber-Reinforced Polymer Composite Cross-Arm in Transmission Tower. <i>Polymers</i> , 2022, 14, 1563.	4.5	19
20	Emerging Developments on Nanocellulose as Liquid Crystals: A Biomimetic Approach. <i>Polymers</i> , 2022, 14, 1546.	4.5	22
21	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.	2.1	23
22	Developments in Nanoparticles Enhanced Biofuels and Solar Energy in Malaysian Perspective: A Review of State of the Art. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-22.	2.7	7
23	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
24	Effects of Elevated Temperature on the Residual Behavior of Concrete Containing Marble Dust and Foundry Sand. <i>Materials</i> , 2022, 15, 3632.	2.9	23
25	Sugar Palm Fibre-Reinforced Polymer Composites: Influence of Chemical Treatments on Its Mechanical Properties. <i>Materials</i> , 2022, 15, 3852.	2.9	24
26	Hyperelastic Properties of Bamboo Cellulosic Fibre-Reinforced Silicone Rubber Biocomposites via Compression Test. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6338.	4.1	13
27	Morphological, Physical, and Mechanical Properties of Sugar-Palm (<i>Arenga pinnata</i> (Wurmb)) Tj ETQq1 1 0.784314,rgBT /Overlock 1000	2.9	15
28	Development of Natural Fibre-Reinforced Polymer Composites Ballistic Helmet Using Concurrent Engineering Approach: A Brief Review. <i>Sustainability</i> , 2022, 14, 7092.	3.2	12
29	Mechanical properties of sugar palm lignocellulosic fibre reinforced polymer composites: a review. <i>Cellulose</i> , 2022, 29, 6493-6516.	4.9	21
30	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
31	Implementation of design for sustainability in developing trophy plaque using green kenaf polymer composites. , 2021, , 85-103.		3
32	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
33	Micro- and Nanocellulose in Polymer Composite Materials: A Review. <i>Polymers</i> , 2021, 13, 231.	4.5	192
34	Development of Roselle Fiber-Reinforced Polymer Biocomposite Mug Pad Using the Hybrid Design for Sustainability and Pugh Method. , 2021, , 197-213.		3
35	Macro to nanoscale natural fiber composites for automotive components: Research, development, and application. , 2021, , 51-105.		10
36	Roselle: Production, Product Development, and Composites. , 2021, , 1-23.		6

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37	Application of Design for Sustainability to Develop Smartphone Holder Using Roselle Fiber-Reinforced Polymer Composites. , 2021, , 177-196.		1
38	Development and Characterization of Roselle Nanocellulose and Its Potential in Reinforced Nanocomposites. , 2021, , 285-317.		1
39	Dynamic mechanical behaviour of kenaf cellulosic fibre biocomposites: a comprehensive review on chemical treatments. Cellulose, 2021, 28, 2675-2695.	4.9	95
40	Utilization of Bracing Arms as Additional Reinforcement in Pultruded Glass Fiber-Reinforced Polymer Composite Cross-Arms: Creep Experimental and Numerical Analyses. Polymers, 2021, 13, 620.	4.5	42
41	Influence of Additional Bracing Arms as Reinforcement Members in Wooden Timber Cross-Arms on Their Long-Term Creep Responses and Properties. Applied Sciences (Switzerland), 2021, 11, 2061.	2.5	34
42	A Review on Natural Fiber Reinforced Polymer Composite for Bullet Proof and Ballistic Applications. Polymers, 2021, 13, 646.	4.5	213
43	Fabrication, Functionalization, and Application of Carbon Nanotube-Reinforced Polymer Composite: An Overview. Polymers, 2021, 13, 1047.	4.5	195
44	Comparison of Static and Long-term Creep Behaviors between Balau Wood and Glass Fiber Reinforced Polymer Composite for Cross-arm Application. Fibers and Polymers, 2021, 22, 793-803.	2.1	50
45	Potential of Honeycomb-Filled Composite Structure in Composite Cross-Arm Component: A Review on Recent Progress and Its Mechanical Properties. Polymers, 2021, 13, 1341.	4.5	30
46	Critical Determinants of Household Electricity Consumption in a Rapidly Growing City. Sustainability, 2021, 13, 4441.	3.2	53
47	Poly(lactic Acid (PLA) Biocomposite: Processing, Additive Manufacturing and Advanced Applications. Polymers, 2021, 13, 1326.	4.5	208
48	Polymer Composites Filled with Metal Derivatives: A Review of Flame Retardants. Polymers, 2021, 13, 1701.	4.5	101
49	A Review on Mechanical Performance of Hybrid Natural Fiber Polymer Composites for Structural Applications. Polymers, 2021, 13, 2170.	4.5	143
50	Natural Fiber Reinforced Composite Material for Product Design: A Short Review. Polymers, 2021, 13, 1917.	4.5	88
51	Unraveling the Bioactive Profile, Antioxidant and DNA Damage Protection Potential of Rye (Secale) Tj ETQq1 1 0.784314 rgBT ₁₅ /Overlook	5.1	15
52	Advances of composite cross arms with incorporation of material core structures: Manufacturability, recent progress and views. Journal of Materials Research and Technology, 2021, 13, 1115-1131.	5.8	29
53	Reflections on Local Community Identity by Evaluating Heritage Sustainability Protection in Jugra, Selangor, Malaysia. Sustainability, 2021, 13, 8705.	3.2	38
54	Thermogravimetric Analysis Properties of Cellulosic Natural Fiber Polymer Composites: A Review on Influence of Chemical Treatments. Polymers, 2021, 13, 2710.	4.5	143

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55	Mechanical Performance and Applications of CNTs Reinforced Polymer Composites”A Review. Nanomaterials, 2021, 11, 2186.	4.1	101
56	Critical Review of Biodegradable and Bioactive Polymer Composites for Bone Tissue Engineering and Drug Delivery Applications. Polymers, 2021, 13, 2623.	4.5	104
57	Use of Industrial Wastes as Sustainable Nutrient Sources for Bacterial Cellulose (BC) Production: Mechanism, Advances, and Future Perspectives. Polymers, 2021, 13, 3365.	4.5	67
58	Effect of silane treatments on mechanical performance of kenaf fibre reinforced polymer composites: a review. Functional Composites and Structures, 2021, 3, 045003.	3.4	20
59	Hybridization of MMT/Lignocellulosic Fiber Reinforced Polymer Nanocomposites for Structural Applications: A Review. Coatings, 2021, 11, 1355.	2.6	60
60	Recent advances of thermal properties of sugar palm lignocellulosic fibre reinforced polymer composites. International Journal of Biological Macromolecules, 2021, 193, 1587-1599.	7.5	53
61	Sugar palm (<i>Arenga pinnata</i> [<i>Wurmb</i>.] <i>Merr</i>) starch films containing sugar palm nanofibrillated cellulose as reinforcement: Water barrier properties. Polymer Composites, 2020, 41, 459-467.	4.6	129
62	Nanocellulose/Starch Biopolymer Nanocomposites: Processing, Manufacturing, and Applications. , 2020, , 65-88.		23
63	Potential Application of Green Composites for Cross Arm Component in Transmission Tower: A Brief Review. International Journal of Polymer Science, 2020, 2020, 1-15.	2.7	80
64	Conceptual design of multi-operation outdoor flexural creep test rig using hybrid concurrent engineering approach. Journal of Materials Research and Technology, 2020, 9, 2357-2368.	5.8	48
65	Woods and composites cantilever beam: A comprehensive review of experimental and numerical creep methodologies. Journal of Materials Research and Technology, 2020, 9, 6759-6776.	5.8	102
66	Evaluation of Design and Simulation of Creep Test Rig for Full-Scale Crossarm Structure. Advances in Civil Engineering, 2020, 2020, 1-10.	0.7	23
67	Integration of <sc>TRIZ</sc>, morphological chart and <sc>ANP</sc> method for development of <sc>FRP</sc> composite portable fire extinguisher. Polymer Composites, 2020, 41, 2917-2932.	4.6	78
68	Introduction to Biofiller-Reinforced Degradable Polymer Composites. , 2020, , 1-23.		3
69	Influence of CaCO ₃ in pultruded glass fiber/unsaturated polyester resin composite on flexural creep behavior using conventional and time-temperature superposition principle methods. Polimery, 2020, 65, 792-800.	0.7	38
70	Creep test rig for cantilever beam: Fundamentals, prospects and present views. Journal of Mechanical Engineering and Sciences, 2020, 14, 6869-6887.	0.6	27
71	Creep behaviour monitoring of short-term duration for fiber-glass reinforced composite cross-arms with unsaturated polyester resin samples using conventional analysis. Journal of Mechanical Engineering and Sciences, 2020, 14, 7361-7368.	0.6	20
72	FUNDAMENTALS OF CREEP, TESTING METHODS AND DEVELOPMENT OF TEST RIG FOR THE FULL-SCALE CROSSARM: A REVIEW. Jurnal Teknologi (Sciences and Engineering), 2019, 81, .	0.4	19

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73	Conceptual design of creep testing rig for full-scale cross arm using TRIZ-Morphological chart-analytic network process technique. Journal of Materials Research and Technology, 2019, 8, 5647-5658.	5.8	60
74	Effect of Kenaf Alkalization Treatment on Morphological and Mechanical Properties of Epoxy/Silica/Kenaf Composite. International Journal of Engineering and Technology(UAE), 2018, 7, 258.	0.3	36