

Muhammad Asyraf Muhammad Rizal

List of Publications by Year in descending order

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74
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4,060
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1153
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Natural Fiber Reinforced Polymer Composite for Bullet Proof and Ballistic Applications. <i>Polymers</i> , 2021, 13, 646.	2.0	213
2	Polylactic Acid (PLA) Biocomposite: Processing, Additive Manufacturing and Advanced Applications. <i>Polymers</i> , 2021, 13, 1326.	2.0	208
3	Fabrication, Functionalization, and Application of Carbon Nanotube-Reinforced Polymer Composite: An Overview. <i>Polymers</i> , 2021, 13, 1047.	2.0	195
4	Micro- and Nanocellulose in Polymer Composite Materials: A Review. <i>Polymers</i> , 2021, 13, 231.	2.0	192
5	Potential of Natural Fiber Reinforced Polymer Composites in Sandwich Structures: A Review on Its Mechanical Properties. <i>Polymers</i> , 2021, 13, 423.	2.0	173
6	Natural Fiber-Reinforced Polylactic Acid, Polylactic Acid Blends and Their Composites for Advanced Applications. <i>Polymers</i> , 2022, 14, 202.	2.0	157
7	A Review on Mechanical Performance of Hybrid Natural Fiber Polymer Composites for Structural Applications. <i>Polymers</i> , 2021, 13, 2170.	2.0	143
8	Thermogravimetric Analysis Properties of Cellulosic Natural Fiber Polymer Composites: A Review on Influence of Chemical Treatments. <i>Polymers</i> , 2021, 13, 2710.	2.0	143
9	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.	2.3	129
10	Effect of hydrolysis time on the morphological, physical, chemical, and thermal behavior of sugar palm nanocrystalline cellulose (<i>Arenga pinnata</i> (<i>Wurmb</i>) <i>Merr</i>). <i>Textile Reseach Journal</i> , 2021, 91, 152-167.	1.1	127
11	Natural Fiber-Reinforced Polycaprolactone Green and Hybrid Biocomposites for Various Advanced Applications. <i>Polymers</i> , 2022, 14, 182.	2.0	121
12	Natural-Fiber-Reinforced Chitosan, Chitosan Blends and Their Nanocomposites for Various Advanced Applications. <i>Polymers</i> , 2022, 14, 874.	2.0	110
13	Critical Review of Biodegradable and Bioactive Polymer Composites for Bone Tissue Engineering and Drug Delivery Applications. <i>Polymers</i> , 2021, 13, 2623.	2.0	104
14	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.	2.6	102
15	Polymer Composites Filled with Metal Derivatives: A Review of Flame Retardants. <i>Polymers</i> , 2021, 13, 1701.	2.0	101
16	Mechanical Performance and Applications of CNTs Reinforced Polymer Composites—A Review. <i>Nanomaterials</i> , 2021, 11, 2186.	1.9	101
17	Dynamic mechanical behaviour of kenaf cellulosic fibre biocomposites: a comprehensive review on chemical treatments. <i>Cellulose</i> , 2021, 28, 2675-2695.	2.4	95
18	Mechanical properties of oil palm fibre-reinforced polymer composites: a review. <i>Journal of Materials Research and Technology</i> , 2022, 17, 33-65.	2.6	92

#	ARTICLE	IF	CITATIONS
19	Natural Fiber Reinforced Composite Material for Product Design: A Short Review. <i>Polymers</i> , 2021, 13, 1917.	2.0	88
20	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.	1.2	80
21	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.	2.3	78
22	Use of Industrial Wastes as Sustainable Nutrient Sources for Bacterial Cellulose (BC) Production: Mechanism, Advances, and Future Perspectives. <i>Polymers</i> , 2021, 13, 3365.	2.0	67
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.	2.6	62
24	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.	2.6	60
25	Hybridization of MMT/Lignocellulosic Fiber Reinforced Polymer Nanocomposites for Structural Applications: A Review. <i>Coatings</i> , 2021, 11, 1355.	1.2	60
26	Critical Determinants of Household Electricity Consumption in a Rapidly Growing City. <i>Sustainability</i> , 2021, 13, 4441.	1.6	53
27	Recent advances of thermal properties of sugar palm lignocellulosic fibre reinforced polymer composites. <i>International Journal of Biological Macromolecules</i> , 2021, 193, 1587-1599.	3.6	53
28	Product Development of Natural Fibre-Composites for Various Applications: Design for Sustainability. <i>Polymers</i> , 2022, 14, 920.	2.0	53
29	Comparison of Static and Long-term Creep Behaviors between Balau Wood and Glass Fiber Reinforced Polymer Composite for Cross-arm Application. <i>Fibers and Polymers</i> , 2021, 22, 793-803.	1.1	50
30	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.	2.6	48
31	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, 620.	2.0	42
32	Reflections on Local Community Identity by Evaluating Heritage Sustainability Protection in Jugra, Selangor, Malaysia. <i>Sustainability</i> , 2021, 13, 8705.	1.6	38
33	Influence of CaCO ₃ in pultruded glass fiber/unsaturated polyester resin composite on flexural creep behavior using conventional and time-temperature superposition principle methods. <i>Polimery</i> , 2020, 65, 792-800.	0.4	38
34	Effect of Kenaf Alkalization Treatment on Morphological and Mechanical Properties of Epoxy/Silica/Kenaf Composite. <i>International Journal of Engineering and Technology(UAE)</i> , 2018, 7, 258.	0.2	36
35	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.	2.0	36
36	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.	1.3	34

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37	Filament-wound glass-fibre reinforced polymer composites: Potential applications for cross arm structure in transmission towers. <i>Polymer Bulletin</i> , 2023, 80, 1059-1084.	1.7	33
38	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, 1341.	2.0	30
39	Advances of composite cross arms with incorporation of material core structures: Manufacturability, recent progress and views. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1115-1131.	2.6	29
40	Creep test rig for cantilever beam: Fundamentals, prospects and present views. <i>Journal of Mechanical Engineering and Sciences</i> , 2020, 14, 6869-6887.	0.3	27
41	Flexural Creep Behaviour of Pultruded GFRP Composites Cross-Arm: A Comparative Study on the Effects of Stacking Sequence. <i>Polymers</i> , 2022, 14, 1330.	2.0	25
42	Sugar Palm Fibre-Reinforced Polymer Composites: Influence of Chemical Treatments on Its Mechanical Properties. <i>Materials</i> , 2022, 15, 3852.	1.3	24
43	Nanocellulose/Starch Biopolymer Nanocomposites: Processing, Manufacturing, and Applications. , 2020, , 65-88.		23
44	Evaluation of Design and Simulation of Creep Test Rig for Full-Scale Crossarm Structure. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-10.	0.4	23
45	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.	1.1	23
46	Effects of Elevated Temperature on the Residual Behavior of Concrete Containing Marble Dust and Foundry Sand. <i>Materials</i> , 2022, 15, 3632.	1.3	23
47	Mechanical performance evaluation of bamboo fibre reinforced polymer composites and its applications: a review. <i>Functional Composites and Structures</i> , 2022, 4, 015009.	1.6	22
48	Emerging Developments on Nanocellulose as Liquid Crystals: A Biomimetic Approach. <i>Polymers</i> , 2022, 14, 1546.	2.0	22
49	Mechanical properties of sugar palm lignocellulosic fibre reinforced polymer composites: a review. <i>Cellulose</i> , 2022, 29, 6493-6516.	2.4	21
50	Creep behaviour monitoring of short-term duration for fiber-glass reinforced composite cross-arms with unsaturated polyester resin samples using conventional analysis. <i>Journal of Mechanical Engineering and Sciences</i> , 2020, 14, 7361-7368.	0.3	20
51	Effect of silane treatments on mechanical performance of kenaf fibre reinforced polymer composites: a review. <i>Functional Composites and Structures</i> , 2021, 3, 045003.	1.6	20
52	FUNDAMENTALS OF CREEP, TESTING METHODS AND DEVELOPMENT OF TEST RIG FOR THE FULL-SCALE CROSSARM: A REVIEW. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2019, 81, .	0.3	19
53	Performance Analysis of Full Assembly Class Fiber-Reinforced Polymer Composite Cross-Arm in Transmission Tower. <i>Polymers</i> , 2022, 14, 1563.	2.0	19
54	Oxygen permeability properties of nanocellulose reinforced biopolymer nanocomposites. <i>Materials Today: Proceedings</i> , 2022, 52, 2414-2419.	0.9	16

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55	Preference Index of Sustainable Natural Fibers in Stone Matrix Asphalt Mixture Using Waste Marble. <i>Materials</i> , 2022, 15, 2729.	1.3	16
56	Unraveling the Bioactive Profile, Antioxidant and DNA Damage Protection Potential of Rye (Secale Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	15
57	Morphological, Physical, and Mechanical Properties of Sugar-Palm (Arenga pinnata (Wurmb)) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.5	15
58	Comparative Drug Release Investigations for Diclofenac Sodium Drug (DS) by Chitosan-Based Grafted and Crosslinked Copolymers. <i>Materials</i> , 2022, 15, 2404.	1.3	14
59	Hyperelastic Properties of Bamboo Cellulosic Fibreâ€“Reinforced Silicone Rubber Biocomposites via Compression Test. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6338.	1.8	13
60	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.	2.0	12
61	Development of Natural Fibre-Reinforced Polymer Composites Ballistic Helmet Using Concurrent Engineering Approach: A Brief Review. <i>Sustainability</i> , 2022, 14, 7092.	1.6	12
62	Macro to nanoscale natural fiber composites for automotive components: Research, development, and application. , 2021, , 51-105.		10
63	Advanced Composite in Aerospace Applications: Opportunities, Challenges, and Future Perspective. , 2022, , 471-498.		9
64	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.	1.5	7
65	Roselle: Production, Product Development, and Composites. , 2021, , 1-23.		6
66	Implementation of design for sustainability in developing trophy plaque using green kenaf polymer composites. , 2021, , 85-103.		3
67	Development of Roselle Fiber-Reinforced Polymer Biocomposite Mug Pad Using the Hybrid Design for Sustainability and Pugh Method. , 2021, , 197-213.		3
68	Introduction to Biofiller-Reinforced Degradable Polymer Composites. , 2020, , 1-23.		3
69	Introduction to nanocellulose production from biological waste. , 2022, , 1-37.		2
70	Application of Design for Sustainability to Develop Smartphone Holder Using Roselle Fiber-Reinforced Polymer Composites. , 2021, , 177-196.		1
71	Development and Characterization of Roselle Nanocellulose and Its Potential in Reinforced Nanocomposites. , 2021, , 285-317.		1
72	Design for Safety in Composites. <i>Composites Science and Technology</i> , 2022, , 95-113.	0.4	0

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73	Composites and Biocomposites: Manufacturing and Processing. Composites Science and Technology, 2022, , 15-33.	0.4	0
74	Safety in Composite Laboratory. Composites Science and Technology, 2022, , 67-94.	0.4	0