

Muhammad Khusairy Bin Bakri

List of Publications by Year in descending order

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110
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119
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119
docs citations

119
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on poly lactic acid (PLA) as a biodegradable polymer. Polymer Bulletin, 2023, 80, 1179-1213.	3.3	135
2	Comparative Study of Dielectric Properties of Hybrid Natural Fiber Composites. Procedia Engineering, 2014, 97, 536-544.	1.2	105
3	Investigation of Fiber Surface Treatment on Mechanical, Acoustical and Thermal Properties of Betelnut Fiber Polyester Composites. Procedia Engineering, 2014, 97, 545-554.	1.2	75
4	Applications of sustainable polymer composites in automobile and aerospace industry. , 2021, , 185-207.		52
5	Processing and Characterization of Banana Fiber/Epoxy Composites: Effect of Alkaline Treatment. Materials Today: Proceedings, 2017, 4, 2871-2878.	1.8	40
6	Study of Sound Absorption Coefficients and Characterization of Rice Straw Stem Fibers Reinforced Polypropylene Composites. BioResources, 2015, 10, .	1.0	33
7	Analysis of natural fiber polymer composites: Effects of alkaline treatment on sound absorption. Journal of Reinforced Plastics and Composites, 2016, 35, 703-711.	3.1	31
8	The curing times effect on the strength of ground granulated blast furnace slag (GGBFS) mortar. Construction and Building Materials, 2020, 260, 120622.	7.2	31
9	Dielectric Properties of Lignocellulosic Fibers Reinforced Polymer Composites: Effect of Fiber Loading and Alkaline Treatment. Materials Today: Proceedings, 2015, 2, 2757-2766.	1.8	30
10	Comparative study of Fourier transform infrared spectroscopy (FTIR) analysis of natural fibres treated with chemical, physical and biological methods. Polymer Bulletin, 2020, 77, 1605-1629.	3.3	26
11	Processing and Characterization of Epoxy/Luffa Composites: Investigation on Chemical Treatment of Fibers on Mechanical and Acoustical Properties. BioResources, 2014, 9, .	1.0	22
12	Tert-butyl catechol/alkaline-treated kenaf/jute polyethylene hybrid composites: impact on physico-mechanical, thermal and morphological properties. Polymer Bulletin, 2019, 76, 763-784.	3.3	19
13	An investigation of sound absorption coefficient on sisal fiber poly lactic acid bio-composites. Journal of Applied Polymer Science, 2015, 132, .	2.6	18
14	Acoustical, thermal, and morphological properties of zein reinforced oil palm empty fruit bunch fiber bio-composites. Journal of Applied Polymer Science, 2016, 133, .	2.6	18
15	Potential of Borneo Acacia wood in fully biodegradable bio-composites™ commercial production and application. Polymer Bulletin, 2018, 75, 5333-5354.	3.3	18
16	An Experimental and Simulation Studies on Sound Absorption Coefficients of Banana Fibers and their Reinforced Composites. Nano Hybrids and Composites, 2016, 12, 9-20.	0.8	17
17	Reinforced Oil Palm Fiber Epoxy Composites: An Investigation on Chemical Treatment of Fibers on Acoustical, Morphological, Mechanical and Spectral Properties. Materials Today: Proceedings, 2015, 2, 2747-2756.	1.8	15
18	Cellulose fiber-reinforced thermosetting composites: impact of cyanoethyl modification on mechanical, thermal and morphological properties. Polymer Bulletin, 2019, 76, 4295-4311.	3.3	15

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19	Impact of polyvinyl alcohol/acrylonitrile on bamboo nanocomposite and optimization of mechanical performance by response surface methodology. <i>Construction and Building Materials</i> , 2020, 258, 119693.	7.2	14
20	Morphological and thermal properties of composites prepared with poly(lactic acid), poly(ethylene-alt-maleic anhydride), and biochar from microwave-pyrolyzed jatropha seeds. <i>BioResources</i> , 2021, 16, 3171-3185.	1.0	14
21	Comparative analysis on dielectric properties of polymer composites reinforced with synthetic and natural fibers. <i>Journal of Vinyl and Additive Technology</i> , 2018, 24, E201.	3.4	12
22	Interfacial polarization effects on dielectric properties in flax reinforced polypropylene/strontium titanate composites. <i>Materials Chemistry and Physics</i> , 2021, 265, 124489.	4.0	11
23	Comparative study of fly ash/sugarcane fiber reinforced polymer composites properties. <i>BioResources</i> , 2020, 15, 5514-5531.	1.0	11
24	INVESTIGATION ON DIELECTRIC AND SOUND ABSORPTION PROPERTIES OF BANANA FIBERS REINFORCED EPOXY COMPOSITES. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2016, 78, .	0.4	10
25	Optimization and characterization of acrylonitrile/MAPE/nano-clay bamboo nanocomposites by response surface methodology. <i>Polymer Bulletin</i> , 2022, 79, 3031-3059.	3.3	9
26	A review on the extraction of cellulose and nanocellulose as a filler through solid waste management. <i>Journal of Thermoplastic Composite Materials</i> , 2023, 36, 1306-1327.	4.2	9
27	Study of dielectric properties of luffa poly(lactide) quadratic splint composites: The effect of cyclic absorption and desorption of water. <i>Journal of Vinyl and Additive Technology</i> , 2018, 24, 388-394.	3.4	8
28	Recycling of sustainable polymers and composites. , 2021, , 267-282.		8
29	Characterization and optimization of mechanical properties of bamboo/nanoclay/polyvinyl alcohol/styrene nanocomposites using response surface methodology. <i>Journal of Vinyl and Additive Technology</i> , 2021, 27, 147-160.	3.4	8
30	Synthesis and characterization of micro-nano carbon filler from Jatropha seeds. <i>BioResources</i> , 2020, 15, 3237-3251.	1.0	8
31	The effect of palm oil fuel ash (POFA) and polyvinyl alcohol (PVA) on the physico-mechanical, thermal and morphological properties of hybrid bio-composites. <i>Polymer Bulletin</i> , 2020, 77, 3523-3535.	3.3	7
32	Comparative Study of Sound Absorption Coefficients of Coir/Kenaf/Sugarcane Bagasse Fiber Reinforced Epoxy Composites. <i>Key Engineering Materials</i> , 2017, 730, 48-53.	0.4	6
33	Dielectric Properties of Pineapple Leaf Fiber Reinforced Epoxy Based Composites. <i>Key Engineering Materials</i> , 0, 730, 42-47.	0.4	6
34	Biocomposite Materials and Its Applications in Acoustical Comfort and Noise Control. <i>Green Energy and Technology</i> , 2017, , 247-259.	0.6	5
35	Application of Analytic Hierarchy Process (AHP) in the analysis of the fuel efficiency in the automobile industry with the utilization of Natural Fiber Polymer Composites (NFPC). <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 191, 012004.	0.6	5
36	Use of sustainable polymers to make green composites. , 2021, , 109-129.		5

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37	Characterization and impact of curing duration on the compressive strength of coconut shell coarse aggregate in concrete. <i>BioResources</i> , 2021, 16, 6057-6073.	1.0	5
38	Application of synthetic acyl glucopyranosides for white-rot and brown-rot fungal decay resistance in aspen and pine wood. <i>BioResources</i> , 2022, 17, 3025-3041.	1.0	5
39	Short Review: Potential Production of Acacia Wood and its Biocomposites. <i>Materials Science Forum</i> , 2018, 917, 37-41.	0.3	4
40	Mechanical Properties of Chicken Feather Reinforced Unsaturated Polyester Composites. <i>Key Engineering Materials</i> , 0, 775, 3-6.	0.4	4
41	Short Review on Conductive Polymer Composites as Functional Materials. <i>Key Engineering Materials</i> , 0, 796, 17-21.	0.4	4
42	A Review Based on Low- and High-Stream Global Carbon Capture and Storage (CCS) Technology and Implementation Strategy. <i>Journal of Applied Science & Process Engineering</i> , 2021, 8, 722-737.	0.1	4
43	Sources of cellulose. , 2022, , 1-18.		4
44	Potential in the Development of Borneo Acacia Wood Reinforced Polyhydroxyalkanoates Bio-Composites. <i>Key Engineering Materials</i> , 0, 779, 19-24.	0.4	3
45	Characterization study of flax/strontium titanate/polypropylene composite for low dielectric applications. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50577.	2.6	3
46	Small-size jatropha seed biochar extracted from microwave pyrolysis: Optimization of its biocomposites mechanical properties by mixture design. <i>BioResources</i> , 2021, 16, 4716-4730.	1.0	3
47	Analysis of char prepared by pyrolysis of dabai (<i>Canarium odontophyllum</i>) nutshells as a potential precursor of biocarbon used for wastewater treatment. <i>BioResources</i> , 2021, 16, 5036-5046.	1.0	3
48	Dielectric properties of natural Borneo woods: Keranji, Kayu Malam, and Kumpang. <i>BioResources</i> , 2020, 15, 7815-7827.	1.0	3
49	Cellulose reinforcement in thermoset composites. , 2022, , 127-142.		3
50	Characterization and comparative study on chemically treated luffa fiber as reinforcement for polylactic acid bio-composites. <i>BioResources</i> , 2022, 17, 2576-2597.	1.0	3
51	Preliminary Study on the Acoustical, Dielectric and Mechanical Properties of Sugarcane Bagasse Reinforced Unsaturated Polyester Composites. <i>Materials Science Forum</i> , 0, 890, 12-15.	0.3	2
52	Lignocellulosic Fibres Reinforced Polymer Composites for Acoustical Applications. <i>Springer Series on Polymer and Composite Materials</i> , 2018, , 415-444.	0.7	2
53	Durability and sustainability of the silica and clay and its nanocomposites. , 2018, , 137-157.		2
54	Comparative Study of Compressive Strength of Epoxy Based Bio-Composites. <i>Key Engineering Materials</i> , 2018, 775, 68-73.	0.4	2

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55	Importance of sustainable polymers for modern society and development. , 2021, , 1-35.		2
56	Acrylation and Acrylonitrile Grafting with MMT Bamboo Nanocomposite. Engineering Materials, 2021, , 39-61.	0.6	2
57	Introduction of Various Types of Acacia Wood. Engineering Materials, 2019, , 1-21.	0.6	2
58	Introduction to recycled plastic biocomposites. , 2022, , 1-27.		2
59	Recycled rubber waste plastic and its composites. , 2022, , 147-163.		2
60	Recycled polymer and plastic waste and its biocomposites. , 2022, , 81-96.		2
61	Effect of Chemical Treatment on Silicon Manganese: Its Morphological, Elemental and Spectral Properties and Its Usage in Concrete. Silicon, 2022, 14, 8081-8096.	3.3	2
62	Heat Treated Luffa - PLA Composites: Effect of Cyclic Moisture Absorption and Desorption on the Mechanical Properties. Materials Science Forum, 0, 917, 42-46.	0.3	1
63	Biomedical and packaging application of silica and various clay dispersed nanocomposites. , 2018, , 109-136.		1
64	Improvement of epoxy nanocomposites on physical, morphology, and mechanical properties as well as fracture behavior with the addition of mesoporous silica/nano-silica. , 2018, , 259-280.		1
65	Effect of biomass ash mixture composite on sound absorption. Materials Today: Proceedings, 2020, 29, 223-227.	1.8	1
66	Bamboo Cellulose Gel/MMT Polymer Nanocomposites for High Strength Materials. Engineering Materials, 2021, , 131-157.	0.6	1
67	Bamboo Nanocomposites Future Development and Applications. Engineering Materials, 2021, , 183-191.	0.6	1
68	Impact of Poly (Ethylene-Alt-Maleic Anhydride) and Nanoclay on the Physicochemical, Mechanical, and Thermal Properties of Bamboo Nanocomposite. Engineering Materials, 2021, , 21-37.	0.6	1
69	Environmental Sustainability of Biopolymers. , 0, , .		1
70	Elimination of Heavy Metal Ion using Nanocellulose Based Membranes. , 0, , .		1
71	Bamboo and Its Bio-composites. , 0, , .		1
72	Infrared Spectral Functional Group and Thermal Properties of Acacia Wood Bio-composites. Engineering Materials, 2019, , 135-151.	0.6	1

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73	Applications of cellulose materials and their composites. , 2022, , 267-284.		1
74	Cellulose reinforcement in thermoplastic composites. , 2022, , 103-126.		1
75	Electrical properties in reinforced polymer composites. , 2021, , 131-140.		0
76	Nano-reinforcement in sustainable polymer composites. , 2021, , 231-243.		0
77	Life cycle assessment of sustainable composites. , 2021, , 245-265.		0
78	Introduction of Various Types of Bamboo Species and Its Nanocomposites Preparation. Engineering Materials, 2021, , 1-19.	0.6	0
79	Bamboo and Wood Fibers/MMT Hybrid Nanocomposites. Engineering Materials, 2021, , 107-130.	0.6	0
80	Polylactic Acid Activated Bamboo Carbon Nanocomposites. Engineering Materials, 2021, , 63-82.	0.6	0
81	Bamboo Nanocellulose Reinforced Polylactic Acid Nanocomposites. Engineering Materials, 2021, , 159-181.	0.6	0
82	Investigation on the Brittle and Ductile Behavior of Bamboo Nano Fiber Reinforced Polypropylene Nanocomposites. Engineering Materials, 2021, , 83-105.	0.6	0
83	Educational and Awareness of Bamboo Nanocomposites Towards Sustainable Environment. Engineering Materials, 2021, , 193-205.	0.6	0
84	Performance of Coconut Biodiesel Fueled Diesel Engine with Exhaust Gas Emission Analysis. Materials Science Forum, 0, 1030, 149-158.	0.3	0
85	Towards the Development of Value-Added Nanocomposites. , 0, , .		0
86	Current and Past: Nanocellulose and Nanocomposites and Its Future Applications. , 0, , .		0
87	Effect of Developing Analytic/Task Specific Rubric for an Enhanced Student Learning in Manufacturing Subjects. , 2016, , .		0
88	Tensile, Flexural and Impact Strength of Acacia Wood Bio-composites. Engineering Materials, 2019, , 103-119.	0.6	0
89	Effect of Nano-enhancement on Acacia Wood Bio-composites. Engineering Materials, 2019, , 187-205.	0.6	0
90	Environmental Impact Analysis of Wood and Natural Fiber Bio-Composites. Engineering Materials, 2019, , 153-170.	0.6	0

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91	Study of Surface Behavior of Acacia Wood Bio-composites by Morphological Analysis. Engineering Materials, 2019, , 121-134.	0.6	0
92	STAGE-STORAGE AND FLOOD RISK ASSESSMENTS OF UPGRADED BATU KITANG SUBMERSIBLE WEIR. Xinan Jiaotong Daxue Xuebao/Journal of Southwest Jiaotong University, 2021, 56, 203-212.	0.2	0
93	Recycled plastic and textile waste biocomposites. , 2022, , 97-118.		0
94	Recycled industrial plasticsâ€™ fine waste incorporated into biocomposites. , 2022, , 213-228.		0
95	Utilization of nanocellulose as reinforcement in biodegradable biomaterials. , 2022, , 243-266.		0
96	Extraction, types, and classification of cellulose. , 2022, , 19-40.		0
97	Micro and nano effects of recycled plastic waste to reinforce and enhance in biocomposites. , 2022, , 195-211.		0
98	Development of pulp and paper waste-recycled plastic biocomposites. , 2022, , 51-79.		0
99	Marine-based reinforcing materials for biocomposites. , 2022, , 229-245.		0
100	Cellulose-reinforced rubber composites. , 2022, , 175-188.		0
101	Cellulose reinforcement in bioplastic composites. , 2022, , 143-158.		0
102	Cellulose interunit linkages and model compounds. , 2022, , 41-52.		0
103	Food residue to reinforce recycled plastic biocomposites. , 2022, , 29-49.		0
104	Cellulose-based composite carbon nanofibers. , 2022, , 159-174.		0
105	Impact of recycled plastic biocomposites on the economy and socioenvironment. , 2022, , 247-259.		0
106	Resources and energy recovery with recycled plastic biocomposites. , 2022, , 261-280.		0
107	Education and awareness of waste and recycled plastic biocomposites. , 2022, , 281-297.		0
108	Glass Waste as Fine Aggregate Filler Replacement in Concrete Addition of Superplasticizer. Engineering Materials, 2022, , 45-61.	0.6	0

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109	Uncrushed Cockleshell as Coarse Aggregate Filler Replacement in Concrete. <i>Engineering Materials</i> , 2022, , 63-80.	0.6	0
110	Characterization and optimization of organoclay- poly(melamine-co-formaldehyde)-methylated solution impregnated pulai (<i>Alstonia</i> spp.) wood using response surface methodology. <i>BioResources</i> , 2022, 17, 2780-2809.	1.0	0