

Mohd Firdaus Omar

List of Publications by Year in descending order

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61
papers

1,863
citations

394286

19
h-index

265120

42
g-index

61
all docs

61
docs citations

61
times ranked

2012
citing authors

#	ARTICLE	IF	CITATIONS
1	Kenaf fiber reinforced composites: A review. <i>Materials & Design</i> , 2011, 32, 4107-4121.	5.1	953
2	Thermal properties of nanocellulose reinforced composites: A review. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48544.	1.3	155
3	Dynamic properties of pultruded natural fibre reinforced composites using Split Hopkinson Pressure Bar technique. <i>Materials & Design</i> , 2010, 31, 4209-4218.	5.1	63
4	Measurement and prediction of compressive properties of polymers at high strain rate loading. <i>Materials & Design</i> , 2011, 32, 4207-4215.	5.1	60
5	Synthesis and structural studies of an epoxidized natural rubber/titania (ENR-50/TiO ₂) hybrid under mild acid conditions. <i>Polymer Testing</i> , 2018, 65, 10-20.	2.3	47
6	Potential of Soil Stabilization Using Ground Granulated Blast Furnace Slag (GGBFS) and Fly Ash via Geopolymerization Method: A Review. <i>Materials</i> , 2022, 15, 375.	1.3	46
7	Particle size Dependent on the static and dynamic compression properties of polypropylene/silica composites. <i>Materials & Design</i> , 2013, 45, 539-547.	5.1	37
8	Static and dynamic compressive properties of mica/polypropylene composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1567-1576.	2.6	36
9	Insight on the structural aspect of ENR-50/TiO ₂ hybrid in KOH/C ₃ H ₈ O medium revealed by NMR spectroscopy. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2400-2413.	2.3	36
10	Effect of molecular structures on dynamic compression properties of polyethylene. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 538, 125-134.	2.6	34
11	Characterization and properties of low-linear-density polyethylene/Typha latifolia composites. <i>International Journal of Polymer Analysis and Characterization</i> , 2016, 21, 590-598.	0.9	32
12	An alkaline deep eutectic solvent based on potassium carbonate and glycerol as pretreatment for the isolation of cellulose nanocrystals from empty fruit bunch. <i>BioResources</i> , 2020, 15, 1154-1170.	0.5	29
13	Water resistance and biodegradation properties of conventionally-heated and microwave-cured cross-linked cellulose nanocrystal/chitosan composite films. <i>Polymer Degradation and Stability</i> , 2021, 188, 109563.	2.7	25
14	Recent progress in the three-dimensional structure of graphene-carbon nanotubes hybrid and their supercapacitor and high-performance battery applications. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 154, 106756.	3.8	24
15	A Review on Recycling of Carbon Fibres: Methods to Reinforce and Expected Fibre Composite Degradations. <i>Materials</i> , 2022, 15, 4991.	1.3	23
16	Mechanical properties of nanosilica/polypropylene composites under dynamic compression loading. <i>Polymer Composites</i> , 2011, 32, 565-575.	2.3	21
17	Effect of Unmodified and Modified Nanocrystalline Cellulose Reinforced Polylactic Acid (PLA) Polymer Prepared by Solvent Casting Method Morphology, mechanical and thermal properties. <i>Materiale Plactice</i> , 2017, 54, 91-97.	0.4	21
18	The effect of rice straw particulate loading and polyethylene glycol as plasticizer on the properties of polylactic acid/polyhydroxybutyrate-valerate blends. <i>Polymer Bulletin</i> , 2018, 75, 61-76.	1.7	20

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19	Effect of Aluminium Powder on Kaolin-Based Geopolymer Characteristic and Removal of Cu ²⁺ . <i>Materials</i> , 2021, 14, 814.	1.3	19
20	Improving flexural and dielectric properties of carbon fiber epoxy composite laminates reinforced with carbon nanotubes interlayer using electrospray deposition. <i>Nanotechnology Reviews</i> , 2020, 9, 1170-1182.	2.6	19
21	Enhancement of mechanical and thermal properties of carbon fiber epoxy composite laminates reinforced with carbon nanotubes interlayer using electrospray deposition. <i>Composites Part C: Open Access</i> , 2020, 3, 100075.	1.5	18
22	Current Research in Biodegradable Plastics. <i>Applied Mechanics and Materials</i> , 0, 679, 273-280.	0.2	15
23	Effect of Particle Size on Mechanical Properties of Sawdust-High Density Polyethylene Composites under Various Strain Rates. <i>BioResources</i> , 2016, 11, .	0.5	14
24	The effect of loading rates and particle geometry on compressive properties of polypropylene/zinc oxide nanocomposites: Experimental and numerical prediction. <i>Polymer Composites</i> , 2012, 33, 99-108.	2.3	12
25	Thermal degradation behavior of a flame retardant melamine derivative hyperbranched polyimide with different terminal groups. <i>RSC Advances</i> , 2015, 5, 92664-92676.	1.7	12
26	Low Cost Synthesis Method of Two-Dimensional Titanium Carbide MXene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 209, 012001.	0.3	12
27	Thermal properties of polypropylene/muscovite layered silicate composites: effects of organic modifications and compatibilisers. <i>Journal of Composite Materials</i> , 2015, 49, 1195-1209.	1.2	10
28	Effect of Alkaline Treatment on Sawdust Reinforced High Density Polyethylene Composite under Wide Strain Rate. <i>Materials Science Forum</i> , 0, 840, 103-107.	0.3	7
29	Comparative study on the properties of cross-linked cellulose nanocrystals/chitosan film composites with conventional heating and microwave curing. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49578.	1.3	6
30	Measurement on Strain Rate Sensitivity and Dynamic Mechanical Properties of Various Polymeric Materials. <i>Key Engineering Materials</i> , 0, 471-472, 385-390.	0.4	5
31	Static and dynamic compressive properties of polypropylene/zinc oxide nanocomposites. <i>Polymer Engineering and Science</i> , 2014, 54, 949-960.	1.5	5
32	Nonisothermal Kinetic Degradation of Hybrid CNT/Alumina Epoxy Nanocomposites. <i>Metals</i> , 2021, 11, 657.	1.0	4
33	Study of Carbon Nanotubes Stability in Different Types of Solvents for Electrospray Deposition Method. <i>Evergreen</i> , 2020, 7, 538-543.	0.3	4
34	Hybrid elastomer-nanotube matrix for hydrophobic surface functionalization. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 532-542.	1.4	3
35	Characterization of Linear Low Density Polyethylene/Rambutan Peels Flour Blends: Effect of Loading Content. <i>Key Engineering Materials</i> , 2016, 673, 171-179.	0.4	3
36	Effect of Glass Reinforced Epoxy (GRE) pipe filled with Geopolymer Materials for Piping Application: Compression Properties. <i>MATEC Web of Conferences</i> , 2016, 78, 01066.	0.1	3

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37	Effect of ion exchange treatment on dynamic compression properties of polypropylene/muscovite-layered silicate composites. <i>Journal of Thermoplastic Composite Materials</i> , 2016, 29, 867-889.	2.6	3
38	Interlaminar fracture toughness properties of hybrid glass fiber-reinforced composite interlayered with carbon nanotube using electrospray deposition. <i>Nanotechnology Reviews</i> , 2021, 10, 1766-1775.	2.6	3
39	Preparation of zinc oxide piezoelectric substrate for saw biosensor device. , 2014, , .		2
40	Morphology, Thermal and Chemical Properties of Nanocrystalline Cellulose (NCC) Hydrolyzed from Banana Stem. <i>Materials Science Forum</i> , 2016, 840, 257-261.	0.3	2
41	The effects of hybrid fillers on thermal, mechanical, physical, and antimicrobial properties of ultrahigh-molecular-weight polyethylene-reinforced composites. <i>Polymer Composites</i> , 2017, 38, 1689-1697.	2.3	2
42	Polarization Study of Sn-0.7Cu Solder Alloy in 1M Hydrochloric Solution. <i>Materials Science Forum</i> , 2017, 888, 394-399.	0.3	2
43	Characterization and properties of acetylated nanocrystalline cellulose (aNC) reinforced polylactic acid (PLA) polymer. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	2
44	Compressive mechanical properties of sawdust/high density polyethylene composites under various strain rate loadings. <i>Journal of Vinyl and Additive Technology</i> , 2018, 24, 162-173.	1.8	2
45	Impact strength of LDPE/RH composites for industrial injection moulded parts. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
46	Flexural properties of rice husk (<i>Oryza sativa</i>) reinforced low density polyethylene composites for industrial injection moulded parts. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	2
47	Optimization of Injection Moulding Processing Parameters for LDPE/RH Composites Tensile Strength Through Full Factorial Experiment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 957, 012039.	0.3	2
48	Effects of Recycled Silicone Catheter Filled Epoxidised Natural Rubber (ENR 50) on Tensile Properties and Morphology. <i>Applied Mechanics and Materials</i> , 0, 679, 207-211.	0.2	1
49	Effect of Organic Modification on Dynamic Compression Properties of Polypropylene/Muscovite Layered Silicate Composites. <i>Materials Science Forum</i> , 2014, 803, 282-287.	0.3	1
50	Tensile Properties and Morphology of Recycled Latex Glove Filled Epoxidized Natural Rubber (ENR50) Compounds. <i>Applied Mechanics and Materials</i> , 0, 679, 267-272.	0.2	1
51	The Addition of <i>Imperata cylindrica</i> as Natural Filler in Epoxidized Natural Rubber Filled Recycled Nitrile Glove: Cure Characteristics and Physical Properties. <i>Applied Mechanics and Materials</i> , 2015, 815, 39-43.	0.2	1
52	Effect of Surface Modification on Rice Husk (RH)/Linear Low Density Polyethylene (LLDPE) Composites under Various Loading Rates. <i>Materials Science Forum</i> , 0, 840, 3-7.	0.3	1
53	Corrosion Performance of Sn-9Zn and Sn-0.7Cu in 3.5% NaCl Solution. <i>Solid State Phenomena</i> , 0, 273, 56-60.	0.3	1
54	Properties of Ethylene Propylene Diene Monomer/Recycled Acrylonitrile Butadiene Rubber Blends (EPDM/rNBR): Effect of the Addition of Bamboo Fillers. <i>Applied Mechanics and Materials</i> , 0, 815, 19-23.	0.2	0

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55	Review on the Effect of Bottom Ash in Performance of Portland Cement Mortar. Applied Mechanics and Materials, 2015, 815, 164-169.	0.2	0
56	Fabrication and characterization of SAW IDT biosensor for biomolecule detection. , 2015, , .		0
57	Measurement on Strain Rate Sensitivity Properties of Rice Husk (Rh)/Linear Low Density Polyethylene (Ldpe) Composites under Various Loading Rates. Applied Mechanics and Materials, 0, 754-755, 77-82.	0.2	0
58	The Effects of Trans-Polyoctylene Rubber (TOR) on the Cure Characteristics and Swelling Behaviour of Activated Carbon Filled Styrene Butadiene Rubber (SBR) Vulcanizates. Materials Science Forum, 2016, 857, 164-168.	0.3	0
59	Strength of Portland Cement with Several Composition of Bottom Ash in Different Fineness with Curing Time of 28 Days. Materials Science Forum, 2016, 857, 311-313.	0.3	0
60	Study of Mxene: Characterization and Radiation Properties of Two-Dimensional Titanium Carbide. Solid State Phenomena, 2018, 280, 31-35.	0.3	0
61	Mechanical properties of rice husk (Oryza sativa) reinforced low density polyethylene composites for industrial injection moulded parts. , 2020, , .		0