Januar Parlaungan Siregar

List of Publications by Year
in descending order

77 papers	1,154 citations	516710 16 h-index	434195 31 g-index
78 all docs	78 docs citations	78 times ranked	757 citing authors

#	Article	IF	Citations
1	Parametric optimisation of supercritical CO₂ thermal-hydraulic characteristics in micro-channels using response surface methodology. Australian Journal of Mechanical Engineering, 2023, 21, 894-910.	2.1	0
2	Effect of Stacking Sequences, Fabric Orientations, and Chemical Treatment on the Mechanical Properties of Hybrid Woven Juteâ€“Ramie Composites. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 273-285.	4.9	11
3	Overview of the Important Factors Influencing the Performance of Eco-Friendly Brake Pads. Polymers, 2022, 14, 1180.	4.5	20
4	Potentiality of Utilizing Woven Pineapple Leaf Fibre for Polymer Composites. Polymers, 2022, 14, 2744.	4.5	5
5	Characterisation of the woven fabric of jute, ramie and roselle for reinforcement material for polymer composite. Materials Today: Proceedings, 2021, 46, 1705-1710.	1.8	2
6	Mechanical properties of hybrid sugar palm/ramie fibre reinforced epoxy composites. Materials Today: Proceedings, 2021, 46, 1729-1734.	1.8	20
7	A review of the recent trends on core structures and impact response of sandwich panels. Journal of Composite Materials, 2021, 55, 2513-2555.	2.4	100
8	Effect of Sintering Temperature on the Physical Properties of Ba0.6Sr0.4TiO3 Prepared by Solid-State Reaction. International Journal of Automotive and Mechanical Engineering, 2021, 18, .	0.9	2
9	The Effect of Hybridisation on Mechanical Properties and Water Absorption Behaviour of Woven Jute/Ramie Reinforced Epoxy Composites. Polymers, 2021, 13, 2964.	4.5	28
10	Application of Micromechanical Modelling for the Evaluation of Elastic Moduli of Hybrid Woven Juteâ€“Ramie Reinforced Unsaturated Polyester Composites. Polymers, 2021, 13, 2572.	4.5	8
11	Optimization of Glass Transition Temperature and Pot Life of Epoxy Blends Using Response Surface Methodology (RSM). Polymers, 2021, 13, 3304.	4.5	5
12	Biodegradation of Polylactic Acid-Based Bio Composites Reinforced with Chitosan and Essential Oils as Anti-Microbial Material for Food Packaging. Polymers, 2021, 13, 4019.	4.5	12
13	Efficiency of photovoltaic technology for Citronella oil distillation. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012079.	0.6	3
14	Bio-Nanocomposite Polyurethane / Clay / Chitosan Paints that have thermal resistance and antibacterial properties for biomedical applications. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012042.	0.6	1
15	Geraniol quality improvement on citronella oil as raw material for making anti-bacterial perfumes. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012028.	0.6	3
16	Experimental investigation on pineapple leaf fiber as biomass source for renewable energy application. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012059.	0.6	1
17	Synthesis and characterization of PLA-Chitosan-ZnO composite for packaging biofilms. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012045.	0.6	2
18	Green composites of natural fiber bamboo/pineapple leaf/coconut husk as hybrid materials. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012038.	0.6	3

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19	A low cost validation method of finite element analysis on a thin walled vertical pressure vessels. Journal of Physics: Conference Series, 2020, 1444, 012042.	0.4	1
20	Mechanical properties of hybrid glass fiber/rice husk reinforced polymer composite. Materials Today: Proceedings, 2020, 27, 1749-1755.	1.8	6
21	Poly(Lactic Acid) (PLA)/Acrylonitrile Butadiene Styrene (ABS) with Graphene Nanoplatelet (GNP) Nanocomposites. Indonesian Journal of Chemistry, 2020, 20, 276.	0.8	11
22	The effect of fibre treatment on water absorption and mechanical properties of buri palm (Corypha) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 7379-7388.	0.6	6
23	Effect of Surface Modification on Mechanical Properties of Buri Palm (Corypha Utan) Fibre Composite Reinforcement. International Journal of Automotive and Mechanical Engineering, 2020, 17, .	0.9	0
24	Vibration Analysis of Hybrid-Reinforced Unsaturated Polyester Composites. , 2019, , 489-514.		3
25	A review of important considerations in the compression molding process of short natural fiber composites. International Journal of Advanced Manufacturing Technology, 2019, 105, 3437-3450.	3.0	54
26	Effect of Maleated Anhydride on Mechanical Properties of Rice Husk Filler Reinforced PLA Matrix Polymer Composite. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 113-124.	4.9	39
27	The Effect of Maleic Anhydride Polyethylene on Mechanical Properties of Pineapple Leaf Fibre Reinforced Polylactic Acid Composites. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 101-112.	4.9	40
28	Mechanical properties of untreated and treated sugar palm fibre reinforced polypropylene composites. AIP Conference Proceedings, 2019, , .	0.4	0
29	Influence of Different Sugar Palm Fiber Content on the Tensile, Flexural, Impact, and Physicochemical Properties of Eco-Friendly Thermoplastic Polyurethane. Theoretical Foundations of Chemical Engineering, 2019, 53, 454-462.	0.7	5
30	Water absorption behaviour on the mechanical properties of woven hybrid reinforced polyester composites. International Journal of Advanced Manufacturing Technology, 2019, 104, 1075-1086.	3.0	36
31	Mechanical performance of hybrid woven juteâ€“roselle-reinforced polyester composites. Polymers and Polymer Composites, 2019, 27, 407-418.	1.9	29
32	Important Considerations in Manufacturing of Natural Fiber Composites: A Review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 647-664.	4.9	64
33	Application of a finite element method to predict fatigue life of the knee mobile bearing. IOP Conference Series: Materials Science and Engineering, 2019, 469, 012067.	0.6	1
34	Influence of geometry on tensile properties of woven buri palm composite. AIP Conference Proceedings, 2019, , .	0.4	0
35	Trends in Lightweight Automotive Materials for Improving Fuel Efficiency and Reducing Carbon Emissions. Automotive Experiences, 2019, 2, 78-90.	0.9	2
36	FBGs Real-Time Impact Damage Monitoring System of GFRP Beam Based on CC-LSL Algorithm. International Journal of Structural Stability and Dynamics, 2018, 18, 1850075.	2.4	3

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37	Characterisation of cassava biopolymers and the determination of their optimum processing temperatures. Plastics, Rubber and Composites, 2018, 47, 447-457.	2.0	6
38	Influence of Selected Treatment on Tensile Properties of Short Pineapple Leaf Fiber Reinforced Tapioca Resin Biopolymer Composites. Journal of Polymers and the Environment, 2018, 26, 4271-4281.	5.0	31
39	Effect of microwave treatment on tensile properties of sugar palm fibre reinforced thermoplastic polyurethane composites. Defence Technology, 2018, 14, 287-290.	4.2	35
40	Effects of KMnO4 Treatment on the Flexural, Impact, and Thermal Properties of Sugar Palm Fiber-Reinforced Thermoplastic Polyurethane Composites. Jom, 2018, 70, 1326-1330.	1.9	9
41	Failure Behaviour of Aluminium/CFRP Laminates with Varying Fibre Orientation in Quasi-static Indentation Test. IOP Conference Series: Materials Science and Engineering, 2018, 319, 012029.	0.6	3
42	Finite Element Simulation of Aluminium/GFRP Fibre Metal Laminate under Tensile Loading. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012072.	0.6	2
43	Water Absorption Behaviour and Mechanical Performance of Pineapple Leaf Fibre Reinforced Polylactic Acid Composites. International Journal of Automotive and Mechanical Engineering, 2018, 15, 5760-5774.	0.9	11
44	Design of portable 3-axis filament winding machine with inexpensive control system. Journal of Mechanical Engineering and Sciences, 2018, 12, 3479-3493.	0.6	18
45	The performance of mengkuang leaf fiber reinforced low density polyethylene composites. Journal of Mechanical Engineering and Sciences, 2018, 12, 3645-3655.	0.6	4
46	Effect of varying geometrical parameters of trapezoidal corrugated-core sandwich structure. MATEC Web of Conferences, 2017, 90, 01018.	0.2	7
47	The Mechanical Properties of Alkaline Treated Pineapple Leaf Fibre to Reinforce Tapioca Based Bioplastic Resin Composite. Materials Science Forum, 2017, 882, 66-70.	0.3	3
48	Effect of alkaline treatment on mechanical properties of woven ramie reinforced thermoset composite. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012044.	0.6	5
49	A review on failure characteristics of polymer gear. MATEC Web of Conferences, 2017, 90, 01029.	0.2	7
50	Design and optimize of 3-axis filament winding machine. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012039.	0.6	16
51	Electrochemical deposited nickel nanowires: influence of deposition bath temperature on the morphology and physical properties. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012032.	0.6	5
52	The behavior of Aluminium Carbon/Epoxy fibre metal laminate under quasi-static loading. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012046.	0.6	8
53	Development of green vapour corrosion inhibitor. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012089.	0.6	5
54	Influence of boric acid (H₃BO₃) concentration on the physical properties of electrochemical deposited nickel (Ni) nanowires. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012033.	0.6	1

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55	Application of response surface methodology method in designing corrosion inhibitor. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012090.	0.6	6
56	Crushing behaviour of composite square honeycomb structure: a finite element analysis. Journal of Mechanical Engineering and Sciences, 2017, 11, 2637-2649.	0.6	6
57	A Finite Element Analysis of a Recurve Bow Riser Using Carbon Fibre Hybrid Composites. Advanced Science Letters, 2017, 23, 11467-11470.	0.2	0
58	Physicochemical Study of Eco-Friendly Sugar Palm Fiber Thermoplastic Polyurethane Composites. BioResources, 2016, 11, .	1.0	13
59	Long Term Corrosion Experiment of Steel Rebar in Fly Ash-Based Geopolymer Concrete in NaCl Solution. International Journal of Corrosion, 2016, 2016, 1-5.	1.1	13
60	Finite element model updating of natural fibre reinforced composite structure in structural dynamics. MATEC Web of Conferences, 2016, 83, 03007.	0.2	13
61	Natural Fiber Reinforced Composites: A Review on Potential for Corrugated Core of Sandwich Structures. MATEC Web of Conferences, 2016, 74, 00033.	0.2	14
62	The study of mechanical properties of pineapple leaf fibre reinforced tapioca based bioplastic resin composite. MATEC Web of Conferences, 2016, 74, 00016.	0.2	7
63	Fracture Behaviours in Compression-loaded Triangular Corrugated Core Sandwich Panels. MATEC Web of Conferences, 2016, 78, 01041.	0.2	1
64	Investigation of Thermal Behavior for Natural Fibres Reinforced Epoxy using Thermogravimetric and Differential Scanning Calorimetric Analysis. MATEC Web of Conferences, 2016, 78, 01042.	0.2	6
65	Improving Efficiency of Aluminium Sacrificial Anode Using Cold Work Process. IOP Conference Series: Materials Science and Engineering, 2016, 114, 012045.	0.6	4
66	Study on properties of tapioca resin polymer. International Journal of Automotive and Mechanical Engineering, 2016, 13, 3178-3189.	0.9	11
67	Effect of sodium hydroxide on the tensile properties of sugar palm fibre reinforced thermoplastic polyurethane composites. Journal of Mechanical Engineering and Sciences, 2016, 10, 1765-1777.	0.6	23
68	Effect of various kenaf fiber content on the mechanical properties of composites. Journal of Mechanical Engineering and Sciences, 2016, 10, 2226-2233.	0.6	15
69	EXPERIMENTAL INVESTIGATIONS ON CORROSION MODEL OF WELDED 6061 ALUMINUM EXPOSED IN NaCl SOLUTION. International Journal of Automotive and Mechanical Engineering, 2015, 11, 2600-2607.	0.9	6
70	Sugar palm (Arenga pinnata): Its fibres, polymers and composites. Carbohydrate Polymers, 2013, 91, 699-710.	10.2	191
71	Physical Properties of Short Pineapple Leaf Fibre (PALF) Reinforced High Impact Polystyrene (HIPS) Composites. Advanced Composites Letters, 2009, 18, 096369350901800.	1.3	5
72	The Effect of Compatibilising Agent and Surface Modification on the Physical Properties of Short Pineapple Leaf Fibre (Palf) Reinforced High Impact Polystyrene (Hips) Composites. Polymers and Polymer Composites, 2009, 17, 379-384.	1.9	6

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73	Tensile Properties ofArenga pinnataFiber-Reinforced Epoxy Composites. Polymer-Plastics Technology and Engineering, 2006, 45, 149-155.	1.9	84
74	Measurement of Indoor Air Quality Parameters in Daycare Centres in Kuala Lumpur Malaysia. Applied Mechanics and Materials, 0, 564, 245-249.	0.2	3
75	Crushing Response of Green Square Honeycomb Structure from Sugar Palm & PLA. Materials Science Forum, 0, 909, 122-126.	0.3	2
76	Synthesis and Characterization of North Aceh CEC Bentonite Determination with Methylene Blue Method and Increased D-Spacing after Addition of Surfactants CTAB-SDS. IOP Conference Series: Materials Science and Engineering, 0, 506, 012054.	0.6	3
77	Wound Dressing Based on Banana Peels Waste and Chitosan by Strengthening Lignin as Wound Healing Medicine. IOP Conference Series: Materials Science and Engineering, 0, 506, 012056.	0.6	14