

# Januar Parlaungan Siregar

## List of Publications by Year in descending order

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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	Sugar palm ( <i>Arenga pinnata</i> ): Its fibres, polymers and composites. <i>Carbohydrate Polymers</i> , 2013, 91, 699-710.	10.2	191
2	A review of the recent trends on core structures and impact response of sandwich panels. <i>Journal of Composite Materials</i> , 2021, 55, 2513-2555.	2.4	100
3	Tensile Properties of <i>Arenga pinnata</i> Fiber-Reinforced Epoxy Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2006, 45, 149-155.	1.9	84
4	Important Considerations in Manufacturing of Natural Fiber Composites: A Review. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 647-664.	4.9	64
5	A review of important considerations in the compression molding process of short natural fiber composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 3437-3450.	3.0	54
6	The Effect of Maleic Anhydride Polyethylene on Mechanical Properties of Pineapple Leaf Fibre Reinforced Polylactic Acid Composites. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 101-112.	4.9	40
7	Effect of Maleated Anhydride on Mechanical Properties of Rice Husk Filler Reinforced PLA Matrix Polymer Composite. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 113-124.	4.9	39
8	Water absorption behaviour on the mechanical properties of woven hybrid reinforced polyester composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 1075-1086.	3.0	36
9	Effect of microwave treatment on tensile properties of sugar palm fibre reinforced thermoplastic polyurethane composites. <i>Defence Technology</i> , 2018, 14, 287-290.	4.2	35
10	Influence of Selected Treatment on Tensile Properties of Short Pineapple Leaf Fiber Reinforced Tapioca Resin Biopolymer Composites. <i>Journal of Polymers and the Environment</i> , 2018, 26, 4271-4281.	5.0	31
11	Mechanical performance of hybrid woven jute-roselle-reinforced polyester composites. <i>Polymers and Polymer Composites</i> , 2019, 27, 407-418.	1.9	29
12	The Effect of Hybridisation on Mechanical Properties and Water Absorption Behaviour of Woven Jute/Ramie Reinforced Epoxy Composites. <i>Polymers</i> , 2021, 13, 2964.	4.5	28
13	Effect of sodium hydroxide on the tensile properties of sugar palm fibre reinforced thermoplastic polyurethane composites. <i>Journal of Mechanical Engineering and Sciences</i> , 2016, 10, 1765-1777.	0.6	23
14	Mechanical properties of hybrid sugar palm/ramie fibre reinforced epoxy composites. <i>Materials Today: Proceedings</i> , 2021, 46, 1729-1734.	1.8	20
15	Overview of the Important Factors Influencing the Performance of Eco-Friendly Brake Pads. <i>Polymers</i> , 2022, 14, 1180.	4.5	20
16	Design of portable 3-axis filament winding machine with inexpensive control system. <i>Journal of Mechanical Engineering and Sciences</i> , 2018, 12, 3479-3493.	0.6	18
17	Design and optimize of 3-axis filament winding machine. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 257, 012039.	0.6	16
18	Effect of various kenaf fiber content on the mechanical properties of composites. <i>Journal of Mechanical Engineering and Sciences</i> , 2016, 10, 2226-2233.	0.6	15

#	ARTICLE	IF	CITATIONS
19	Natural Fiber Reinforced Composites: A Review on Potential for Corrugated Core of Sandwich Structures. MATEC Web of Conferences, 2016, 74, 00033.	0.2	14
20	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
21	Physicochemical Study of Eco-Friendly Sugar Palm Fiber Thermoplastic Polyurethane Composites. BioResources, 2016, 11, .	1.0	13
22	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
23	Finite element model updating of natural fibre reinforced composite structure in structural dynamics. MATEC Web of Conferences, 2016, 83, 03007.	0.2	13
24	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
25	Effect of Stacking Sequences, Fabric Orientations, and Chemical Treatment on the Mechanical Properties of Hybrid Woven Jute-Ramie Composites. International Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 273-285.	4.9	11
26	Study on properties of tapioca resin polymer. International Journal of Automotive and Mechanical Engineering, 2016, 13, 3178-3189.	0.9	11
27	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
28	Poly(Lactic Acid) (PLA)/Acrylonitrile Butadiene Styrene (ABS) with Graphene Nanoplatelet (GNP) Nanocomposites. Indonesian Journal of Chemistry, 2020, 20, 276.	0.8	11
29	Effects of KMnO <sub>4</sub> Treatment on the Flexural, Impact, and Thermal Properties of Sugar Palm Fiber-Reinforced Thermoplastic Polyurethane Composites. Jom, 2018, 70, 1326-1330.	1.9	9
30	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
31	Application of Micromechanical Modelling for the Evaluation of Elastic Moduli of Hybrid Woven Jute-Ramie Reinforced Unsaturated Polyester Composites. Polymers, 2021, 13, 2572.	4.5	8
32	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
33	Effect of varying geometrical parameters of trapezoidal corrugated-core sandwich structure. MATEC Web of Conferences, 2017, 90, 01018.	0.2	7
34	A review on failure characteristics of polymer gear. MATEC Web of Conferences, 2017, 90, 01029.	0.2	7
35	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
36	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

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37	Application of response surface methodology method in designing corrosion inhibitor. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012090.	0.6	6
38	Characterisation of cassava biopolymers and the determination of their optimum processing temperatures. Plastics, Rubber and Composites, 2018, 47, 447-457.	2.0	6
39	Mechanical properties of hybrid glass fiber/rice husk reinforced polymer composite. Materials Today: Proceedings, 2020, 27, 1749-1755.	1.8	6
40	Crushing behaviour of composite square honeycomb structure: a finite element analysis. Journal of Mechanical Engineering and Sciences, 2017, 11, 2637-2649.	0.6	6
41	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
42	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
43	Physical Properties of Short Pineapple Leaf Fibre (PALF) Reinforced High Impact Polystyrene (HIPS) Composites. Advanced Composites Letters, 2009, 18, 096369350901800.	1.3	5
44	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
45	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
46	Development of green vapour corrosion inhibitor. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012089.	0.6	5
47	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
48	Optimization of Glass Transition Temperature and Pot Life of Epoxy Blends Using Response Surface Methodology (RSM). Polymers, 2021, 13, 3304.	4.5	5
49	Potentiality of Utilizing Woven Pineapple Leaf Fibre for Polymer Composites. Polymers, 2022, 14, 2744.	4.5	5
50	Improving Efficiency of Aluminium Sacrificial Anode Using Cold Work Process. IOP Conference Series: Materials Science and Engineering, 2016, 114, 012045.	0.6	4
51	The performance of mengkuang leaf fiber reinforced low density polyethylene composites. Journal of Mechanical Engineering and Sciences, 2018, 12, 3645-3655.	0.6	4
52	Measurement of Indoor Air Quality Parameters in Daycare Centres in Kuala Lumpur Malaysia. Applied Mechanics and Materials, 0, 564, 245-249.	0.2	3
53	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
54	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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55	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
56	Vibration Analysis of Hybrid-Reinforced Unsaturated Polyester Composites. , 2019, , 489-514.		3
57	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
58	Efficiency of photovoltaic technology for Citronella oil distillation. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012079.	0.6	3
59	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
60	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
61	Crushing Response of Green Square Honeycomb Structure from Sugar Palm & PLA. Materials Science Forum, 0, 909, 122-126.	0.3	2
62	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
63	Synthesis and characterization of PLA-Chitosan-ZnO composite for packaging biofilms. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012045.	0.6	2
64	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
65	Effect of Sintering Temperature on the Physical Properties of Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> Prepared by Solid-State Reaction. International Journal of Automotive and Mechanical Engineering, 2021, 18, .	0.9	2
66	Trends in Lightweight Automotive Materials for Improving Fuel Efficiency and Reducing Carbon Emissions. Automotive Experiences, 2019, 2, 78-90.	0.9	2
67	Fracture Behaviours in Compression-loaded Triangular Corrugated Core Sandwich Panels. MATEC Web of Conferences, 2016, 78, 01041.	0.2	1
68	Influence of boric acid (H <sub>3</sub> BO <sub>3</sub> ) concentration on the physical properties of electrochemical deposited nickel (Ni) nanowires. IOP Conference Series: Materials Science and Engineering, 2017, 257, 012033.	0.6	1
69	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
70	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
71	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
72	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

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73	Mechanical properties of untreated and treated sugar palm fibre reinforced polypropylene composites. AIP Conference Proceedings, 2019, , .	0.4	0
74	Influence of geometry on tensile properties of woven buri palm composite. AIP Conference Proceedings, 2019, , .	0.4	0
75	Parametric optimisation of supercritical CO <sub>2</sub> thermal-hydraulic characteristics in micro-channels using response surface methodology. Australian Journal of Mechanical Engineering, 2023, 21, 894-910.	2.1	0
76	A Finite Element Analysis of a Recurve Bow Riser Using Carbon Fibre Hybrid Composites. Advanced Science Letters, 2017, 23, 11467-11470.	0.2	0
77	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