

# Teuku Rihayat

## List of Publications by Year in descending order

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44  
papers

406  
citations

932766

10  
h-index

839053

18  
g-index

44  
all docs

44  
docs citations

44  
times ranked

286  
citing authors

#	ARTICLE	IF	CITATIONS
1	Important Considerations in Manufacturing of Natural Fiber Composites: A Review. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 647-664.	2.7	64
2	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.	1.5	54
3	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.	2.4	31
4	Synthesis and Thermal Characterization of Polyurethane/Clay Nanocomposites Based on Palm Oil Polyol. Polymer-Plastics Technology and Engineering, 2006, 45, 1323-1326.	1.9	16
5	Mechanical properties evaluation of single and hybrid composites polyester reinforced bamboo, PALF and coir fiber. IOP Conference Series: Materials Science and Engineering, 2018, 334, 012081.	0.3	16
6	Influence of coating polyurethane with mixture of bentonite and chitosan nanocomposites. AIP Conference Proceedings, 2018, , .	0.3	14
7	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.	0.3	14
8	Modification of PLA/PCL/Acehâ€™s bentonite nanocomposites as biomedical materials. AIP Conference Proceedings, 2018, , .	0.3	13
9	Determination of CEC value (<i>Cation Exchange Capacity</i>) of Bentonites from North Aceh and Bener Meriah, Aceh Province, Indonesia using three methods. IOP Conference Series: Materials Science and Engineering, 2018, 334, 012054.	0.3	13
10	Improving the quality of biopolymer (poly lactic acid) with the addition of bentonite as filler. IOP Conference Series: Materials Science and Engineering, 2017, 222, 012008.	0.3	12
11	Synthesis of polyurethane/clay nanocomposites based palm oil polyol coating. Journal of Mechanical Engineering and Sciences, 2015, 9, 1580-1586.	0.3	12
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.	2.0	12
13	Mechanical Characterisation of Polyurethane/Clay Nanocomposites. Polymers and Polymer Composites, 2007, 15, 647-652.	1.0	11
14	Physical and mechanical properties of bamboo/flax fibre reinforced epoxy composite water absorption behaviour and high-temperature conditions. Plastics, Rubber and Composites, 2021, 50, 415-424.	0.9	11
15	Morphology Properties of Polyurethane/Clay Nanocomposites Base on Palm Oil Polyol Paint. Advanced Materials Research, 0, 647, 701-704.	0.3	10
16	Preparation and Properties and Application of Renewable Source (Palm Oil Polyol) Based Polyurethanes Coatings and its Thermal Stability Improvement by Clay Nanocomposites. Advanced Materials Research, 2014, 887-888, 566-569.	0.3	10
17	Effects of Heat Treatment on the Properties of Polyurethane/Clay Nanocomposites Paint. Applied Mechanics and Materials, 0, 525, 97-100.	0.2	10
18	Purification process of jelantah oil using active chorcoal kepokâ€™s banana. AIP Conference Proceedings, 2018, , .	0.3	10

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19	Thermal degradation of Aceh™s bentonite reinforced poly lactic acid (PLA) based on renewable resources for packaging application. AIP Conference Proceedings, 2018, , .	0.3	9
20	Synthesis and characterization of poly (lactic acid)/chitosan nanocomposites based on renewable resources as biobased-material. Journal of Physics: Conference Series, 2018, 953, 012015.	0.3	8
21	Composition on Essential Oil Extraction from Lemongrass Fragrant by Microwave Air Hydro Distillation Method to Perfume Dermatitis Production. IOP Conference Series: Materials Science and Engineering, 0, 506, 012053.	0.3	8
22	Poly lactic acid (PLA)/chitosan/bentonite nanocomposites based on cassava starch for materials in biomedical applications. AIP Conference Proceedings, 2018, , .	0.3	7
23	Formulation of Polyurethane with Bentonite-Chitosan as Filler Applied to Carbon Steel as an Antibacterial and Environmentally Friendly Paint. IOP Conference Series: Materials Science and Engineering, 2019, 536, 012093.	0.3	7
24	Synthesis, characterization and microbial protection of palm oil based polyurethane / bentonite / chitosan as paint and coating material. , 2017, , .		6
25	Potentiality of Utilizing Woven Pineapple Leaf Fibre for Polymer Composites. Polymers, 2022, 14, 2744.	2.0	5
26	Adsorption and kinetics study of manganese (II) in waste water using vertical column method by sugar cane bagasse. IOP Conference Series: Materials Science and Engineering, 2018, 334, 012025.	0.3	4
27	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.	0.3	3
28	Geraniol quality improvement on citronella oil as raw material for making anti-bacterial perfumes. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012028.	0.3	3
29	Synthesis and Characterization of Chitosan with Addition of Patchouli Oil to Improve Mechanical Properties Biofilm. Journal of Physics: Conference Series, 2018, 1116, 042001.	0.3	2
30	Composite material making from empty fruit bunches of palm oil (EFB) and Ijuk (Arengapinnata) using plastic bottle waste as adhesives. IOP Conference Series: Materials Science and Engineering, 2018, 334, 012083.	0.3	2
31	EFFECT OF ZINC OXIDE NANOPARTICLES ON THE THERMAL, MECHANICAL AND WATER ABSORPTION PROPERTIES OF POLYLACTIC ACID/CHITOSAN COMPOSITES. International Journal of Research -GRANTHAALAYAH, 2020, 8, 15-23.	0.1	2
32	Synthesis of poly lactic acid (PLA)/nanochitosanâ€based for bioscaffold materials with the addition of Zn-curcumin. Materials Today: Proceedings, 2022, , .	0.9	2
33	The ultrasound effect of cationic surfactant on the preparation of natural bentonite Nisam, North Aceh.. Journal of Physics: Conference Series, 2018, 953, 012013.	0.3	1
34	Synthesis and innovation of PLA/clay nanocomposite characterization againts to mechanical and thermal properties. IOP Conference Series: Materials Science and Engineering, 2018, 334, 012047.	0.3	1
35	Mechanical Properties, Morphology and Thermal Degradation of PCL (Poly Îµ - Caprolactone) Biodegradable Polymer Blended Nanocomposites with Aceh Bentonite as Filler. IOP Conference Series: Materials Science and Engineering, 2019, 536, 012040.	0.3	1
36	Papain Enzyme and Lemon as Coagulants in Cottage Cheese. IOP Conference Series: Materials Science and Engineering, 2019, 536, 012103.	0.3	1

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37	Effect of Determination Temperature on Nutrition and Organoleptic Tuna Fish Floss. IOP Conference Series: Materials Science and Engineering, 2019, 506, 012055.	0.3	1
38	Processing and characterization of bentonite North Aceh as filler blend with chitosan to increase specific properties of PCL (poly $\epsilon$ -caprolactone). Journal of Physics: Conference Series, 2018, 1116, 042030.	0.3	0
39	High molecular chitosan-based seed shells ( <i>Tachypleus gigas</i> ) with silver nanoparticles as waste treatment of palm oil industry (pome). Journal of Physics: Conference Series, 2018, 1116, 042002.	0.3	0
40	Development of Poly Lactic Acid/Kitosan Elastomer with Essential Oil Addition to Improved Performance Antibacterial Materials. IOP Conference Series: Materials Science and Engineering, 2019, 536, 012087.	0.3	0
41	Optimization of Kaolin adsorbent to reduction iron metal ion using ultrasonic technology. IOP Conference Series: Materials Science and Engineering, 2020, 788, 012003.	0.3	0
42	REMOVAL OF HG(II) METAL IONS USING KAOLIN ADSORBENTS MODIFIED WITH ANIONIC SURFACTANT AND EFFICIENT ULTRASONIC ASSISTED. International Journal of Research -GRANTHAALAYAH, 2021, 9, 72-84.	0.1	0
43	PROMOTION OF POLYLACTID ACID ECO-FRIENDLY BY COMBINED ADDITION OF PCL CATECHIN-CHITOSAN UNDER EXTRUDING CONDITION. International Journal of Research -GRANTHAALAYAH, 2021, 9, 85-96.	0.1	0
44	THERMAL BEHAVIOR IMPROVEMENT OF BIODEGRADABLE FIBER POLYMER COMPOSITES POLYLACTIC ACID (PLA)/COIR USING ACEH'S BENTONITE. International Journal of Research -GRANTHAALAYAH, 2021, 9, 97-108.	0.1	0