

# Rizal Samsul

## List of Publications by Year in descending order

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53  
papers

1,111  
citations

393982

19  
h-index

433756

31  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1225  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradable Films for Fruits and Vegetables Packaging Application: Preparation and Properties. Food Engineering Reviews, 2018, 10, 139-153.	3.1	90
2	Evaluation of the thermomechanical properties and biodegradation of brown rice starch-based chitosan biodegradable composite films. International Journal of Biological Macromolecules, 2020, 156, 896-905.	3.6	77
3	A Review on Revolutionary Natural Biopolymer-Based Aerogels for Antibacterial Delivery. Antibiotics, 2020, 9, 648.	1.5	71
4	Development of seaweed-based bamboo microcrystalline cellulose films intended for sustainable food packaging applications. BioResources, 2019, 14, 3389-3410.	0.5	53
5	Tensile properties prediction of natural fibre composites using rule of mixtures: A review. Journal of Reinforced Plastics and Composites, 2019, 38, 211-248.	1.6	47
6	Interfacial Compatibility Evaluation on the Fiber Treatment in the Typha Fiber Reinforced Epoxy Composites and Their Effect on the Chemical and Mechanical Properties. Polymers, 2018, 10, 1316.	2.0	45
7	Preparation and Characterization of Microcrystalline Cellulose from Sacred Bali Bamboo as Reinforcing Filler in Seaweed-based Composite Film. Fibers and Polymers, 2018, 19, 423-434.	1.1	43
8	Extraction of Cellulose Nanofibers via Eco-friendly Supercritical Carbon Dioxide Treatment Followed by Mild Acid Hydrolysis and the Fabrication of Cellulose Nanopapers. Polymers, 2019, 11, 1813.	2.0	41
9	Carbon dioxide plasma treated PVDF electrospun membrane for the removal of crystal violet dyes and iron oxide nanoparticles from water. Nano Structures Nano Objects, 2019, 18, 100268.	1.9	41
10	Dimple fracture under short pulse loading. International Journal of Impact Engineering, 2000, 24, 69-83.	2.4	38
11	Robust Superhydrophobic Cellulose Nanofiber Aerogel for Multifunctional Environmental Applications. Polymers, 2019, 11, 495.	2.0	37
12	Experimental analysis of using beeswax as phase change materials for limiting temperature rise in building integrated photovoltaics. Case Studies in Thermal Engineering, 2018, 12, 223-227.	2.8	36
13	Properties and Characterization of a PLA-Chitin-Starch Biodegradable Polymer Composite. Polymers, 2019, 11, 1656.	2.0	35
14	Isolation of Textile Waste Cellulose Nanofibrillated Fibre Reinforced in Polylactic Acid-Chitin Biodegradable Composite for Green Packaging Application. Polymers, 2021, 13, 325.	2.0	35
15	Preparation and Characterization of Nanocellulose/Chitosan Aerogel Scaffolds Using Chemical-Free Approach. Gels, 2021, 7, 246.	2.1	33
16	Cotton Wastes Functionalized Biomaterials from Micro to Nano: A Cleaner Approach for a Sustainable Environmental Application. Polymers, 2021, 13, 1006.	2.0	28
17	Plasticizer Enhancement on the Miscibility and Thermomechanical Properties of Polylactic Acid-Chitin-Starch Composites. Polymers, 2020, 12, 115.	2.0	25
18	An investigation of thermal conductivity and sound absorption from binderless panels made of oil palm wood as bio-insulation materials. Results in Engineering, 2022, 13, 100319.	2.2	25

#	ARTICLE	IF	CITATIONS
19	Functional Properties and Molecular Degradation of Schizostachyum Brachycladum Bamboo Cellulose Nanofibre in PLA-Chitosan Bionanocomposites. <i>Molecules</i> , 2021, 26, 2008.	1.7	22
20	Properties of Macroalgae Biopolymer Films Reinforcement with Polysaccharide Microfibre. <i>Polymers</i> , 2020, 12, 2554.	2.0	18
21	Properties and Characterization of Lignin Nanoparticles Functionalized in Macroalgae Biopolymer Films. <i>Nanomaterials</i> , 2021, 11, 637.	1.9	17
22	Hemicellulose and lignin removal on typha fiber by alkali treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 352, 012019.	0.3	16
23	Evaluation of Interfacial Fracture Toughness and Interfacial Shear Strength of Typha Spp. Fiber/Polymer Composite by Double Shear Test Method. <i>Materials</i> , 2019, 12, 2225.	1.3	16
24	Functional Properties of Antimicrobial Neem Leaves Extract Based Macroalgae Biofilms for Potential Use as Active Dry Packaging Applications. <i>Polymers</i> , 2021, 13, 1664.	2.0	16
25	Development and characterization of bamboo fiber reinforced biopolymer films. <i>Materials Research Express</i> , 2018, 5, 085309.	0.8	15
26	Preparation of Palm Oil Ash Nanoparticles: Taguchi Optimization Method by Particle Size Distribution and Morphological Studies. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 985.	1.3	15
27	The role of silica-containing agro-industrial waste as reinforcement on physicochemical and thermal properties of polymer composites. <i>Heliyon</i> , 2020, 6, e03550.	1.4	14
28	The Role of Two-Step Blending in the Properties of Starch/Chitin/Poly(lactic Acid) Biodegradable Composites for Biomedical Applications. <i>Polymers</i> , 2020, 12, 592.	2.0	14
29	Characterization of Thermal Bio-Insulation Materials Based on Oil Palm Wood: The Effect of Hybridization and Particle Size. <i>Polymers</i> , 2021, 13, 3287.	2.0	12
30	Influence of layering pattern of modified kenaf fiber on thermomechanical properties of epoxy composites. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2020, 36, 47-62.	0.8	11
31	Effects of strain rate on failure mechanisms and energy absorption in polymer composites. , 2019, , 51-78.		10
32	Investigation of thermal conductivity and physical properties of oil palm trunks/ramie fiber reinforced biopolymer hybrid composites as building bio-insulation. <i>Materials Today: Proceedings</i> , 2022, 60, 373-377.	0.9	10
33	Enhancement of the Physical, Mechanical, and Thermal Properties of Epoxy-based Bamboo Nanofiber Nanocomposites. <i>BioResources</i> , 2018, 13, .	0.5	9
34	Barrier properties of biocomposites/hybrid films. , 2019, , 241-258.		9
35	Techno-functional Properties of Edible Packaging Films at Different Polysaccharide Blends. <i>Journal of Physical Science</i> , 2019, 30, 23-41.	0.5	9
36	Sulfur Removal in Bio-Briquette Combustion Using Seashell Waste Adsorbent at Low Temperature. <i>Journal of Engineering and Technological Sciences</i> , 2016, 48, 465-481.	0.3	9

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37	Effects of Corn Starch and Kappaphycus alvarezii Seaweed Blend Concentration on the Optical, Mechanical, and Water Vapor Barrier Properties of Composite Films. <i>BioResources</i> , 2017, 13, .	0.5	8
38	Synergistic Effect of Oil Palm Based Pozzolanic Materials/Oil Palm Waste on Polyester Hybrid Composite. <i>Journal of Polymers and the Environment</i> , 2018, 26, 4063-4072.	2.4	8
39	Bionanocarbon Functional Material Characterisation and Enhancement Properties in Nonwoven Kenaf Fibre Nanocomposites. <i>Polymers</i> , 2021, 13, 2303.	2.0	8
40	Role of dispersion time on the properties of enzymatic-treated bamboo cellulose nanofibers. <i>Materials Research Express</i> , 2018, 5, 105014.	0.8	7
41	Hybrid Membrane Distillation and Wet Scrubber for Simultaneous Recovery of Heat and Water from Flue Gas. <i>Entropy</i> , 2020, 22, 178.	1.1	7
42	Effect of Mesh Sensitivity and Cohesive Properties on Simulation of Typha Fiber/Epoxy Microbond Test. <i>Computation</i> , 2020, 8, 2.	1.0	6
43	Value-Added Utilization of Agro-Waste Derived Oil Palm Ash in Epoxy Composites. <i>Journal of Renewable Materials</i> , 2019, 7, 1269-1278.	1.1	5
44	Propionic Anhydride Modification of Cellulosic Kenaf Fibre Enhancement with Bionanocarbon in Nanobiocomposites. <i>Molecules</i> , 2021, 26, 4248.	1.7	5
45	Fundamental Study on the Carbonization Characteristics of Low Rank Coal Under Low Temperature and its Application on Traditional Blacksmith. <i>Advanced Materials Research</i> , 0, 576, 615-618.	0.3	4
46	Oil palm microfiber-reinforced handsheet-molded thermoplastic green composites for sustainable packaging applications. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2019, 35, 173-187.	0.8	3
47	The Effect of Chemical Composition on Grain Size and Formability of the Free-Lead Cu-30Zn Alloy: A Short Review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 536, 012019.	0.3	3
48	Functional Properties of Kenaf Bast Fibre Anhydride Modification Enhancement with Bionanocarbon in Polymer Nanobiocomposites. <i>Polymers</i> , 2021, 13, 4211.	2.0	3
49	<title>The dynamic properties behavior of high strength concrete under different strain rate</title>. , 2005, 5852, 56.		1
50	Waning anti-SARS-CoV-2 neutralizing antibody in CoronaVac-vaccinated individuals in Indonesia. <i>F1000Research</i> , 0, 11, 300.	0.8	1
51	<title>Influences of strain rate on yield strength aluminum alloys</title>. , 2005, , .		0
52	Adsorption of Cu(II) Ions on Areca Catechu Stem-Based Activated Carbon: Optimization Using Response Surface Methodology. <i>International Review on Modelling and Simulations</i> , 2019, 12, 123.	0.2	0
53	Effect of elevated temperature on SARS-CoV-2 viability. <i>F1000Research</i> , 0, 11, 403.	0.8	0