Samsul Rizal

List of Publications by Year
in descending order

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45 papers	1,071 citations	393982 19 h-index	433756 31 g-index
45 all docs	45 docs citations	45 times ranked	1224 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	Enhancement of basic properties of polysaccharideâ€based composites with organic and inorganic fillers: A review. Journal of Applied Polymer Science, 2019, 136, 47251.	1.3	63
5	Development of seaweed-based bamboo microcrystalline cellulose films intended for sustainable food packaging applications. BioResources, 2019, 14, 3389-3410.	0.5	53
6	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
7	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
8	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
9	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
10	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
11	Microbial-induced CaCO3 filled seaweed-based film for green plasticulture application. Journal of Cleaner Production, 2018, 199, 150-163.	4.6	38
12	Robust Superhydrophobic Cellulose Nanofiber Aerogel for Multifunctional Environmental Applications. Polymers, 2019, 11, 495.	2.0	37
13	Properties and Characterization of a PLAâ€“Chitinâ€“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	Extracted Compounds from Neem Leaves as Antimicrobial Agent on the Physico-Chemical Properties of Seaweed-Based Biopolymer Films. Polymers, 2020, 12, 1119.	2.0	22

#	Article	IF	Citations
19	Functional Properties and Molecular Degradation of Schizostachyum Brachycladum Bamboo Cellulose Nanofibre in PLA-Chitosan Bionanocomposites. Molecules, 2021, 26, 2008.	1.7	22
20	Properties of Macroalgae Biopolymer Films Reinforcement with Polysaccharide Microfibre. Polymers, 2020, 12, 2554.	2.0	18
21	Properties and Characterization of Lignin Nanoparticles Functionalized in Macroalgae Biopolymer Films. Nanomaterials, 2021, 11, 637.	1.9	17
22	Hemicellulose and lignin removal on typha fiber by alkali treatment. IOP Conference Series: Materials Science and Engineering, 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. Materials, 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. Polymers, 2021, 13, 1664.	2.0	16
25	Preparation of Palm Oil Ash Nanoparticles: Taguchi Optimization Method by Particle Size Distribution and Morphological Studies. Applied Sciences (Switzerland), 2020, 10, 985.	1.3	15
26	The role of silica-containing agro-industrial waste as reinforcement on physicochemical and thermal properties of polymer composites. Heliyon, 2020, 6, e03550.	1.4	14
27	The Role of Two-Step Blending in the Properties of Starch/Chitin/Polylactic Acid Biodegradable Composites for Biomedical Applications. Polymers, 2020, 12, 592.	2.0	14
28	Characterization of Thermal Bio-Insulation Materials Based on Oil Palm Wood: The Effect of Hybridization and Particle Size. Polymers, 2021, 13, 3287.	2.0	12
29	Simulation of the Ill-Posed Problem of Reinforced Concrete Corrosion Detection Using Boundary Element Method. International Journal of Corrosion, 2016, 2016, 1-5.	0.6	11
30	Influence of layering pattern of modified kenaf fiber on thermomechanical properties of epoxy composites. Progress in Rubber, Plastics and Recycling Technology, 2020, 36, 47-62.	0.8	11
31	The role of cellulose nanofibrillated fibers produced with combined supercritical carbon dioxide and highâ€pressure homogenization process as reinforcement material in biodegradable polymer. Polymer Composites, 2021, 42, 1795-1808.	2.3	11
32	Effects of Corn Starch and Kappaphycus alvarezii Seaweed Blend Concentration on the Optical, Mechanical, and Water Vapor Barrier Properties of Composite Films. BioResources, 2017, 13, .	0.5	8
33	Bionanocarbon Functional Material Characterisation and Enhancement Properties in Nonwoven Kenaf Fibre Nanocomposites. Polymers, 2021, 13, 2303.	2.0	8
34	Hybrid Membrane Distillation and Wet Scrubber for Simultaneous Recovery of Heat and Water from Flue Gas. Entropy, 2020, 22, 178.	1.1	7
35	Effect of Mesh Sensitivity and Cohesive Properties on Simulation of Typha Fiber/Epoxy Microbond Test. Computation, 2020, 8, 2.	1.0	6
36	Tensile Strength and Fracture Behavior of Single Abaca Fiber. Journal of Natural Fibers, 2022, 19, 8796-8810.	1.7	6

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37	Deformation Capacity of RC Beam-Column Joints Strengthened with Ferrocement. Sustainability, 2022, 14, 4398.	1.6	6
38	Propionic Anhydride Modification of Cellulosic Kenaf Fibre Enhancement with Bionanocarbon in Nanobiocomposites. Molecules, 2021, 26, 4248.	1.7	5
39	Oil palm microfiber-reinforced handsheet-molded thermoplastic green composites for sustainable packaging applications. Progress in Rubber, Plastics and Recycling Technology, 2019, 35, 173-187.	0.8	3
40	Functional Properties of Kenaf Bast Fibre Anhydride Modification Enhancement with Bionanocarbon in Polymer Nanobiocomposites. Polymers, 2021, 13, 4211.	2.0	3
41	Effect soil resistivity in mapping potential corrosion in underground pipelines area. AIP Conference Proceedings, 2018, , .	0.3	1
42	The use of frictional and bonded contact models in finite element analysis for internal fixation of tibia fracture. Frattura Ed Integrita Strutturale, 2022, 16, 130-139.	0.5	1
43	The Sensitivity Analysis in Topology Optimization of Hip Stem Prosthesis Using Finite Element Method. IOP Conference Series: Materials Science and Engineering, 2020, 931, 012001.	0.3	0
44	Investigation of Meniscus Effect on Microbond Test of Typha Fiber/Epoxy Matrix. Defect and Diffusion Forum, 2020, 402, 14-19.	0.4	0
45	The Role of Typha angustifilia Fiberâ€“Matrix Bonding Parameters on Interfacial Shear Strength Analysis. Polymers, 2022, 14, 1006.	2.0	0