

Niyi Gideon Olaiya

List of Publications by Year in descending order

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papers

1,012
citations

430442

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docs citations

39
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Plant Cellulose Nanofibre-Based Aerogels for Biomedical Applications. <i>Polymers</i> , 2020, 12, 1759.	2.0	154
2	Evaluation of the thermomechanical properties and biodegradation of brown rice starch-based chitosan biodegradable composite films. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 896-905.	3.6	77
3	A Review on Revolutionary Natural Biopolymer-Based Aerogels for Antibacterial Delivery. <i>Antibiotics</i> , 2020, 9, 648.	1.5	71
4	A Review on Micro- to Nanocellulose Biopolymer Scaffold Forming for Tissue Engineering Applications. <i>Polymers</i> , 2020, 12, 2043.	2.0	71
5	A current advancement on the role of lignin as sustainable reinforcement material in biopolymeric blends. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2287-2316.	2.6	68
6	Insights into the Role of Biopolymer Aerogel Scaffolds in Tissue Engineering and Regenerative Medicine. <i>Polymers</i> , 2021, 13, 1612.	2.0	55
7	Properties and Characterization of a PLA-Chitin-Starch Biodegradable Polymer Composite. <i>Polymers</i> , 2019, 11, 1656.	2.0	35
8	Isolation of Textile Waste Cellulose Nanofibrillated Fibre Reinforced in Polylactic Acid-Chitin Biodegradable Composite for Green Packaging Application. <i>Polymers</i> , 2021, 13, 325.	2.0	35
9	Recent trends and future prospects of nanostructured aerogels in water treatment applications. <i>Journal of Water Process Engineering</i> , 2022, 45, 102481.	2.6	33
10	Characterization and Performance Evaluation of Cellulose Acetate-Polyurethane Film for Lead II Ion Removal. <i>Polymers</i> , 2020, 12, 1317.	2.0	29
11	The Role of Biopolymer-Based Materials in Obstetrics and Gynecology Applications: A Review. <i>Polymers</i> , 2021, 13, 633.	2.0	28
12	Cotton Wastes Functionalized Biomaterials from Micro to Nano: A Cleaner Approach for a Sustainable Environmental Application. <i>Polymers</i> , 2021, 13, 1006.	2.0	28
13	Improved Hydrophobicity of Macroalgae Biopolymer Film Incorporated with Kenaf Derived CNF Using Silane Coupling Agent. <i>Molecules</i> , 2021, 26, 2254.	1.7	26
14	Plasticizer Enhancement on the Miscibility and Thermomechanical Properties of Polylactic Acid-Chitin-Starch Composites. <i>Polymers</i> , 2020, 12, 115.	2.0	25
15	Enhancement of Oil Palm Waste Nanoparticles on the Properties and Characterization of Hybrid Plywood Biocomposites. <i>Polymers</i> , 2020, 12, 1007.	2.0	25
16	Filler-Modified Castor Oil-Based Polyurethane Foam for the Removal of Aqueous Heavy Metals Detected Using Laser-Induced Breakdown Spectroscopy (LIBS) Technique. <i>Polymers</i> , 2020, 12, 903.	2.0	23
17	Extracted Compounds from Neem Leaves as Antimicrobial Agent on the Physico-Chemical Properties of Seaweed-Based Biopolymer Films. <i>Polymers</i> , 2020, 12, 1119.	2.0	22
18	Functional Properties and Molecular Degradation of Schizostachyum Brachycladum Bamboo Cellulose Nanofibre in PLA-Chitosan Bionanocomposites. <i>Molecules</i> , 2021, 26, 2008.	1.7	22

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19	Extracted supercritical CO ₂ cinnamon oil functional properties enhancement in cellulose nanofibre reinforced Eucheuma cottonii biopolymer films. <i>Journal of Materials Research and Technology</i> , 2021, 15, 4293-4308.	2.6	19
20	Properties of Macroalgae Biopolymer Films Reinforcement with Polysaccharide Microfibre. <i>Polymers</i> , 2020, 12, 2554.	2.0	18
21	Electrochemical Properties of MgZnCa-Based Thin Film Metallic Glasses Fabricated by Magnetron Sputtering Deposition Coated on a Stainless Steel Substrate. <i>Analytical Letters</i> , 2021, 54, 1588-1602.	1.0	18
22	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
23	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
24	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
25	The role of cellulose nanofibrillated fibers produced with combined supercritical carbon dioxide and high pressure homogenization process as reinforcement material in biodegradable polymer. <i>Polymer Composites</i> , 2021, 42, 1795-1808.	2.3	11
26	Augmentation of physico-mechanical, thermal and biodegradability performances of bio-precipitated material reinforced in Eucheuma cottonii biopolymer films. <i>Journal of Materials Research and Technology</i> , 2021, 12, 1673-1688.	2.6	11
27	The role of amphiphilic chitosan in hybrid nanocellulose reinforced poly(lactic acid) biocomposite. <i>Polymers for Advanced Technologies</i> , 2021, 32, 3446-3457.	1.6	8
28	Bionanocarbon Functional Material Characterisation and Enhancement Properties in Nonwoven Kenaf Fibre Nanocomposites. <i>Polymers</i> , 2021, 13, 2303.	2.0	8
29	Viscoelastic and Properties of Amphiphilic Chitin in Plasticised Poly(lactic Acid)/Starch Biocomposite. <i>Polymers</i> , 2022, 14, 2268.	2.0	8
30	Properties and Interfacial Bonding Enhancement of Oil Palm Bio-Ash Nanoparticles Biocomposites. <i>Polymers</i> , 2021, 13, 1615.	2.0	7
31	Glass FRP-Reinforced Geopolymer Based Columns Comprising Hybrid Fibres: Testing and FEA Modelling. <i>Polymers</i> , 2022, 14, 324.	2.0	7
32	Properties and Characterization of New Approach Organic Nanoparticle-Based Biocomposite Board. <i>Polymers</i> , 2020, 12, 2236.	2.0	5
33	Propionic Anhydride Modification of Cellulosic Kenaf Fibre Enhancement with Bionanocarbon in Nanobiocomposites. <i>Molecules</i> , 2021, 26, 4248.	1.7	5
34	Properties Enhancement Nano Coconut Shell Filled in Packaging Plastic Waste Bionanocomposite. <i>Polymers</i> , 2022, 14, 772.	2.0	5
35	Functional Properties of Kenaf Bast Fibre Anhydride Modification Enhancement with Bionanocarbon in Polymer Nanobiocomposites. <i>Polymers</i> , 2021, 13, 4211.	2.0	3
36	Performance optimization of jaw-type rock crushing machine through shaft eccentricity redesign. <i>African Journal of Science, Technology, Innovation and Development</i> , 2020, 12, 435-442.	0.8	2

#	ARTICLE	IF	CITATIONS
37	Ultraviolet light exposure degradation effect on the properties of nanocrystalline cellulose-reinforced polyvinyl alcohol composite film. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2022, 38, 21-37.	0.8	2
38	Functional miscibility and thermomechanical properties enhancement of substituted phthalic acetylated modified chitin filler in biopolymer composite. <i>Royal Society Open Science</i> , 2022, 9, .	1.1	2
39	Supercritical Carbon Dioxide Isolation of Cellulose Nanofibre and Enhancement Properties in Biopolymer Composites. <i>Molecules</i> , 2021, 26, 5276.	1.7	1