Rotimi E Sadiku

List of Publications by Year
in descending order

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304 papers	8,333 citations	50170 46 h-index	69108 77 g-index
326 all docs	326 docs citations	326 times ranked	8676 citing authors

#	Article	IF	Citations
1	Alginate-based composite materials for wound dressing application:A mini review. Carbohydrate Polymers, 2020, 236, 116025.	5.1	387
2	A mini review on hydrogels classification and recent developments in miscellaneous applications. Materials Science and Engineering C, 2017, 79, 958-971.	3.8	351
3	Recent progress on natural fiber hybrid composites for advanced applications: A review. EXPRESS Polymer Letters, 2019, 13, 159-198.	1.1	276
4	Toughening of Biodegradable Polylactide/Poly(butylene succinate-co-adipate) Blends via in Situ Reactive Compatibilization. ACS Applied Materials & Interfaces, 2013, 5, 4266-4276.	4.0	222
5	Preparation and characterization of nano-cellulose with new shape from different precursor. Carbohydrate Polymers, 2013, 98, 562-567.	5.1	215
6	Carboxymethyl cellulose-based materials for infection control and wound healing: A review. International Journal of Biological Macromolecules, 2020, 164, 963-975.	3.6	213
7	A review of natural fibres, their sustainability and automotive applications. Journal of Reinforced Plastics and Composites, 2016, 35, 1041-1050.	1.6	161
8	Development of polyvinyl alcohol/chitosan bio-nanocomposite films reinforced with cellulose nanocrystals isolated from rice straw. Applied Surface Science, 2018, 449, 591-602.	3.1	150
9	Morphology and Properties of Electrospun PCL and Its Composites for Medical Applications: A Mini Review. Applied Sciences (Switzerland), 2019, 9, 2205.	1.3	137
10	Celluloseâ€“polymerâ€“Ag nanocomposite fibers for antibacterial fabrics/skin scaffolds. Carbohydrate Polymers, 2013, 93, 553-560.	5.1	133
11	Removal of dye by carboxymethyl cellulose, acrylamide and graphene oxide via a free radical polymerization process. Carbohydrate Polymers, 2017, 164, 186-194.	5.1	128
12	Development of novel biodegradable Au nanocomposite hydrogels based on wheat: For inactivation of bacteria. Carbohydrate Polymers, 2013, 92, 2193-2200.	5.1	127
13	Role of Specific Interfacial Area in Controlling Properties of Immiscible Blends of Biodegradable Polylactide and Poly[(butylene succinate)-co-adipate]. ACS Applied Materials & Interfaces, 2012, 4, 6690-6701.	4.0	125
14	Iota-Carrageenan-based biodegradable Ag0 nanocomposite hydrogels for the inactivation of bacteria. Carbohydrate Polymers, 2013, 95, 188-194.	5.1	122
15	Utilisation of natural fibre as modifier in bituminous mixes: A review. Construction and Building Materials, 2014, 54, 305-312.	3.2	119
16	Thermoplastic Processing of PLA/Cellulose Nanomaterials Composites. Polymers, 2018, 10, 1363.	2.0	113
17	A review on the impact of mining operation: Monitoring, assessment and management. Results in Engineering, 2020, 8, 100181.	2.2	110
18	Effect of Nanoclay Loading on the Thermal and Mechanical Properties of Biodegradable Polylactide/Poly[(butylene succinate)-co-adipate] Blend Composites. ACS Applied Materials & Interfaces, 2012, 4, 2395-2405.	4.0	101

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19	Preparation and characterization of poly(ethylene glycol) stabilized nano silver particles by a mechanochemical assisted ball mill process. Journal of Applied Polymer Science, 2016, 133, .	1.3	96
20	Structure and properties of new natural cellulose fabrics from Cordia dichotoma. Carbohydrate Polymers, 2011, 86, 1623-1629.	5.1	94
21	Sustaining the shelf life of fresh food in cold chain â€“ A burden on the environment. AEJ - Alexandria Engineering Journal, 2016, 55, 1359-1365.	3.4	89
22	A Review on Polymer Nanocomposites and Their Effective Applications in Membranes and Adsorbents for Water Treatment and Gas Separation. Membranes, 2021, 11, 139.	1.4	89
23	5-Fluorouracil Loaded Chitosanâ€“PVA/Na+MMT Nanocomposite Films for Drug Release and Antimicrobial Activity. Nano-Micro Letters, 2016, 8, 260-269.	14.4	83
24	Hemp Fiber-Reinforced 1-Pentene/Polypropylene Copolymer: The Effect of Fiber Loading on the Mechanical and Thermal Characteristics of the Composites. Journal of Reinforced Plastics and Composites, 2008, 27, 1533-1544.	1.6	82
25	A review on the sustainability of natural fiber in matrix reinforcement â€“ A practical perspective. Journal of Reinforced Plastics and Composites, 2016, 35, 3-7.	1.6	74
26	Preparation and properties of biodegradable films from Sterculia urens short fiber/cellulose green composites. Carbohydrate Polymers, 2013, 93, 622-627.	5.1	73
27	Structure and properties of highly toughened biodegradable polylactide/ZnO biocomposite films. International Journal of Biological Macromolecules, 2014, 64, 428-434.	3.6	71
28	Dependency of the Mechanical Properties of Sisal Fiber Reinforced Recycled Polypropylene Composites on Fiber Surface Treatment, Fiber Content and Nanoclay. Journal of Polymers and the Environment, 2017, 25, 427-434.	2.4	70
29	Extraction and Characterization of Natural Cellulose Fibers from Maize Tassel. International Journal of Polymer Analysis and Characterization, 2015, 20, 99-109.	0.9	68
30	Effects of Essential Oil Vapour Treatment on the Postharvest Disease Control and Different Defence Responses in Two Mango (Mangifera indica L.) Cultivars. Food and Bioprocess Technology, 2017, 10, 1131-1141.	2.6	68
31	Biomolecule chitosan, curcumin and ZnO-based antibacterial nanomaterial, via a one-pot process. Carbohydrate Polymers, 2020, 249, 116825.	5.1	68
32	Electrospun Alginate Nanofibers Toward Various Applications: A Review. Materials, 2020, 13, 934.	1.3	65
33	Antifungal activity of five different essential oils in vapour phase for the control of Colletotrichum gloeosporioides and Lasiodiplodia theobromae inÂvitro and on mango. International Journal of Food Science and Technology, 2016, 51, 411-418.	1.3	63
34	Unique isothermal crystallization phenomenon in the ternary blends of biopolymers polylactide and poly[(butylene succinate)-co-adipate] and nano-clay. Polymer, 2012, 53, 505-518.	1.8	62
35	Nanocomposites of PEDOT:PSS with Graphene and its Derivatives for Flexible Electronic Applications: A Review. Macromolecular Materials and Engineering, 2021, 306, 2000716.	1.7	62
36	Recent developments in polymeric electrospun nanofibrous membranes for seawater desalination. RSC Advances, 2018, 8, 37915-37938.	1.7	61

#	Article	IF	Citations
37	Mechanical evaluation of hybrid natural fibreâ€“reinforced polymeric composites for automotive bumper beam: a review. International Journal of Advanced Manufacturing Technology, 2019, 103, 1781-1797.	1.5	61
38	Mechanical properties of cellulose nanofibril papers and their bionanocomposites: A review. Carbohydrate Polymers, 2021, 273, 118507.	5.1	60
39	Mechanical properties of sisal fibre-reinforced polymer composites: a review. Composite Interfaces, 2016, 23, 15-36.	1.3	59
40	Characterization of an exopolysaccharide produced by Lactobacillus plantarum HM47 isolated from human breast milk. Process Biochemistry, 2018, 73, 15-22.	1.8	59
41	Morphology, Thermal Stability, and Flammability Properties of Polymer-Layered Double Hydroxide (LDH) Nanocomposites: A Review. Crystals, 2020, 10, 612.	1.0	59
42	A Review of the Factors that Influence Sound Absorption and the Available Empirical Models for Fibrous Materials. Acoustics Australia, 2017, 45, 453-469.	1.4	56
43	A potential utilization of end-of-life tyres as recycled carbon black in EPDM rubber. Waste Management, 2018, 74, 110-122.	3.7	55
44	Application of maize tassel for the removal of Pb, Se, Sr, U and V from borehole water contaminated with mine wastewater in the presence of alkaline metals. Journal of Hazardous Materials, 2009, 164, 884-891.	6.5	53
45	The use of polypropylene in bamboo fibre composites and their mechanical properties â€“ A review. Journal of Reinforced Plastics and Composites, 2015, 34, 1347-1356.	1.6	53
46	Antibiotic copper oxide-curcumin nanomaterials for antibacterial applications. Journal of Molecular Liquids, 2020, 300, 112353.	2.3	53
47	Biocidal chitosan-magnesium oxide nanoparticles via a green precipitation process. Journal of Hazardous Materials, 2021, 411, 124884.	6.5	49
48	Use of modified atmosphere packaging combined with essential oils for prolonging post-harvest shelf life of mango (cv. Banganapalli and cv. Totapuri). LWT - Food Science and Technology, 2021, 148, 111662.	2.5	48
49	Material characterization of blended sisal-kenaf composites with an ABS matrix. Applied Acoustics, 2017, 125, 184-193.	1.7	47
50	Kinetic release studies of nitrogen-containing bisphosphonate from gum acacia crosslinked hydrogels. International Journal of Biological Macromolecules, 2015, 73, 115-123.	3.6	46
51	Corrosion and Wear Behaviour of Spark Plasma-Sintered NiCrCoAlTiW-Ta Superalloy. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	1.2	46
52	Extraction of cellulose nanocrystals from areca waste and its application in eco-friendly biocomposite film. Chemosphere, 2022, 287, 132084.	4.2	45
53	Impact of Surface Modification and Nanoparticle on Sisal Fiber Reinforced Polypropylene Nanocomposites. Journal of Nanotechnology, 2016, 2016, 1-9.	1.5	43
54	A unique application of the second order derivative of FTIRâ€“ATR spectra for compositional analyses of natural rubber and polychloroprene rubber and their blends. Polymer Testing, 2017, 62, 447-453.	2.3	43

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55	Development of biodegradable metaloxide/polymer nanocomposite films based on poly-Îµ-caprolactone and terephthalic acid. Materials Science and Engineering C, 2017, 70, 85-93.	3.8	43
56	Negative impact from the application of natural fibers. Journal of Cleaner Production, 2017, 143, 843-846.	4.6	41
57	Effects of multiscale rice straw (Oryza sativa) as reinforcing filler in montmorillonite-polyvinyl alcohol biocomposite packaging film for enhancing the storability of postharvest mango fruit () Tj ETQq1 1 0.784314 rgBT /Overlock	2.6	41
58	Mechanical performance and water uptake behaviour of treated bamboo fibre-reinforced high-density polyethylene composites. Heliyon, 2019, 5, e02028.	1.4	41
59	Parametric Analysis of Electrical Conductivity of Polymer-Composites. Polymers, 2019, 11, 1250.	2.0	39
60	13C NMR Study of Copolymers of Propene with Higher 1-Olefins with New Microstructures byansa-Zirconocene Catalysts. Macromolecular Chemistry and Physics, 2003, 204, 1738-1746.	1.1	38
61	Towards Development of an Optimization Model to Identify Contamination Source in a Water Distribution Network. Water (Switzerland), 2018, 10, 579.	1.2	38
62	Development of novel proteinâ€“Ag nanocomposite for drug delivery and inactivation of bacterial applications. International Journal of Biological Macromolecules, 2014, 63, 75-82.	3.6	37
63	5â€Fluorouracil encapsulated magnetic nanohydrogels for drugâ€delivery applications. Journal of Applied Polymer Science, 2016, 133, .	1.3	37
64	A Techno-economic Analysis of Anaerobic Digestion and Gasification Hybrid System: Energy Recovery from Municipal Solid Waste in South Africa. Waste and Biomass Valorization, 2021, 12, 1167-1184.	1.8	37
65	Development of high alginate comprised hydrogels for removal of Pb(II) ions. Journal of Molecular Liquids, 2020, 298, 112087.	2.3	36
66	Experimental investigation of modified bentonite clay-crumb rubber concrete. Construction and Building Materials, 2020, 233, 117187.	3.2	36
67	Influence of Operation Parameters on Metal Deposition in Bright Nickel-plating Process. Portugaliae Electrochimica Acta, 2011, 29, 91-100.	0.4	36
68	Preparation and Characterization of Sodium Alginateâ€“Based Hydrogels and Their In Vitro Release Studies. Advances in Polymer Technology, 2013, 32, .	0.8	35
69	A state-of-the-art review of an optimal sensor placement for contaminant warning system in a water distribution network. Urban Water Journal, 2018, 15, 985-1000.	1.0	35
70	Properties and Characterization of a PLAâ€“Chitinâ€“Starch Biodegradable Polymer Composite. Polymers, 2019, 11, 1656.	2.0	35
71	Biocidal (bacterial and cancer cells) activities of chitosan/CuO nanomaterial, synthesized via a green process. Carbohydrate Polymers, 2021, 259, 117762.	5.1	35
72	The significance of biomacromolecule alginate for the 3D printing of hydrogels for biomedical applications. International Journal of Biological Macromolecules, 2022, 212, 561-578.	3.6	35

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73	Influence of Boehmite Nanoparticle Loading on the Mechanical, Thermal, and Rheological Properties of Biodegradable Polylactide/Poly(Ïµâ€caprolactone) Blends. Macromolecular Materials and Engineering, 2015, 300, 31-47.	1.7	34
74	Synthesis methods of borophene, graphene-loaded polypyrrole nanocomposites and their benefits for energy storage applications: A brief overview. FlatChem, 2021, 26, 100211.	2.8	33
75	Temperature-responsive poly(N-vinylcaprolactam-co-hydroxyethyl methacrylate) nanogels for controlled release studies of curcumin. Designed Monomers and Polymers, 2015, 18, 705-713.	0.7	32
76	Characterization and in vitro release kinetics of antimalarials from whey protein-based hydrogel biocomposites. International Journal of Industrial Chemistry, 2018, 9, 39-52.	3.1	32
77	Structure and properties of poly (lactic acid)/Sterculia urens uniaxial fabric biocomposites. Carbohydrate Polymers, 2013, 94, 822-828.	5.1	31
78	Concurrent Enhancement of Multiple Properties in Reactively Processed Nanocomposites of Polylactide/<scp>P</scp>oly[(butylene succinate)â€coâ€adipate] Blend and Organoclay. Macromolecular Materials and Engineering, 2014, 299, 596-608.	1.7	31
79	Theoretical performance of nanofiltration membranes for wastewater treatment. Environmental Chemistry Letters, 2015, 13, 37-47.	8.3	31
80	Spark plasma sintering of graphiteâ€“aluminum powder reinforced with SiC/Si particles. Powder Technology, 2015, 284, 504-513.	2.1	31
81	Morphology and Thermal Properties of Compatibilized PA12/PP Blends with Boehmite Alumina Nanofiller Inclusions. Macromolecular Materials and Engineering, 2012, 297, 627-638.	1.7	30
82	On energy storage capacity of conductive MXene hybrid nanoarchitectures. Journal of Energy Storage, 2022, 45, 103686.	3.9	30
83	Plastics in municipal drinking water and wastewater treatment plant effluents: challenges and opportunities for South Africaâ€”a review. Environmental Science and Pollution Research, 2020, 27, 12953-12966.	2.7	29
84	Development of Gelatin Based Inorganic Nanocomposite Hydrogels for Inactivation of Bacteria. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 1054-1060.	1.9	28
85	Effect of titanium addition on the microstructure, electrical conductivity and mechanical properties of copper by using SPS for the preparation of Cu-Ti alloys. Journal of Alloys and Compounds, 2018, 736, 163-171.	2.8	28
86	Minimizing energy consumption in refrigerated vehicles through alternative external wall. Renewable and Sustainable Energy Reviews, 2017, 67, 89-93.	8.2	27
87	Sustainable Chemicals: A Brief Survey of the Furans. Chemistry Africa, 2020, 3, 481-496.	1.2	26
88	Development and characterization of nano-multifunctional materials for advanced applications. RSC Advances, 2014, 4, 60363-60370.	1.7	25
89	Physical, antifungal, and biodegradable properties of cellulose nanocrystals and chitosan nanoparticles for food packaging application. Materials Today: Proceedings, 2021, 38, 860-869.	0.9	25
90	Barrier properties of blends based on liquid crystalline polymers and polyethylene. Polymer Engineering and Science, 2000, 40, 1969-1978.	1.5	24

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91	Application of nanoparticles and composite materials for energy generation and storage. IET Nanodielectrics, 2019, 2, 115-122.	2.0	24
92	Flame retardancy efficacy of phytic acid: An overview. Journal of Applied Polymer Science, 2022, 139, .	1.3	24
93	Investigation of the degree of homogeneity and hydrogen bonding in PEG/PVP blends prepared in supercritical CO2: Comparison with ethanol-cast blends and physical mixtures. Journal of Supercritical Fluids, 2010, 54, 81-88.	1.6	23
94	Characterization of Two Nanofiltration Membranes for the Separation of Ions from Acid Mine Water. Mine Water and the Environment, 2017, 36, 401-408.	0.9	23
95	Green synthesis of tea Ag nanocomposite hydrogels via mint leaf extraction for effective antibacterial activity. Journal of Biomaterials Science, Polymer Edition, 2017, 28, 1588-1602.	1.9	23
96	Influence of sintering temperature on the corrosion and wear behaviour of spark plasmaâ€“sintered Inconel 738LC alloy. International Journal of Advanced Manufacturing Technology, 2019, 104, 4195-4206.	1.5	23
97	Electrical and mechanical properties of polypropylene/epoxy blend-graphite/carbon black composite for proton exchange membrane fuel cell bipolar plate. Materials Today: Proceedings, 2021, 38, 658-662.	0.9	23
98	Microstructure of Metallocene-Catalyzed Propene/1-Pentene Copolymers. Macromolecular Chemistry and Physics, 2003, 204, 1643-1652.	1.1	22
99	Development of microbial resistant thermosensitive Ag nanocomposite (gelatin) hydrogels via green process. Journal of Biomedical Materials Research - Part A, 2014, 102, 928-934.	2.1	22
100	Development of microbial resistant Carbopol nanocomposite hydrogels via a green process. Biomaterials Science, 2014, 2, 257-263.	2.6	22
101	Polyhedral oligomeric silsesquioxane/polyamide bio-nanocomposite membranes: structure-gas transport properties. RSC Advances, 2015, 5, 11272-11283.	1.7	22
102	Spark plasma sintering of nickel and nickel based alloys: A Review. Procedia Manufacturing, 2019, 35, 1324-1329.	1.9	22
103	Prospects of nanostructured composite materials for energy harvesting and storage. Journal of King Saud University - Science, 2020, 32, 758-764.	1.6	22
104	Statistical characterization and simulation of graphene-loaded polypyrrole composite electrical conductivity. Journal of Materials Research and Technology, 2020, 9, 15788-15801.	2.6	22
105	Development of bacterial-resistant electrospun polylactide membrane for air filtration application: Effects of reduction methods and their loadings. Polymer Degradation and Stability, 2020, 178, 109205.	2.7	22
106	Investigation and Modeling of the Electrical Conductivity of Graphene Nanoplatelets-Loaded Doped-Polypyrrole. Polymers, 2021, 13, 1034.	2.0	22
107	Mechanical properties of uniaxial natural fabric Grewia tilifolia reinforced epoxy based composites: Effects of chemical treatment. Fibers and Polymers, 2014, 15, 1462-1468.	1.1	21
108	Gas flaring and its impact on electricity generation in Nigeria. Journal of Natural Gas Science and Engineering, 2016, 29, 1-6.	2.1	21

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109	Determination of Optimum Conditions for the Production of Activated Carbon Derived from Separate Varieties of Coconut Shells. International Journal of Chemical Engineering, 2017, 2017, 1-16.	1.4	21
110	Optimization of SPS processing parameters on the density and hardness properties of graphene reinforced polylactic acid nanocomposite. International Journal of Advanced Manufacturing Technology, 2019, 102, 4047-4058.	1.5	21
111	Supercritical CO2-assisted preparation of ibuprofen-loaded PEGâ€“PVP complexes. Journal of Supercritical Fluids, 2011, 57, 190-197.	1.6	20
112	Analysis of clean coal technology in Nigeria for energy generation. Energy Strategy Reviews, 2018, 20, 64-70.	3.3	20
113	Correlations between Fibre Diameter, Physical Parameters, and the Mechanical Properties of Randomly Oriented Biobased Polylactide Nanofibres. Fibers and Polymers, 2019, 20, 100-112.	1.1	20
114	Investigation of graphene loaded polypyrrole for lithium-ion battery. Materials Today: Proceedings, 2021, 38, 635-638.	0.9	20
115	Recent progress on 2D metal carbide/nitride (MXene) nanocomposites for lithium-based batteries. FlatChem, 2021, 29, 100281.	2.8	20
116	Mechanical property prediction of SPS processed GNP/PLA polymer nanocomposite using artificial neural network. Cogent Engineering, 2020, 7, 1720894.	1.1	19
117	Microstructural characteristics and thermophysical properties of spark plasma sintered Inconel 738LC. International Journal of Advanced Manufacturing Technology, 2019, 104, 1425-1436.	1.5	18
118	Temperature-sensitive semi-IPN composite hydrogels for antibacterial applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 572, 307-316.	2.3	18
119	In situ FTIR spectroscopic study of the effect of CO2 sorption on H-bonding in PEGâ€“PVP mixtures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 78, 1500-1506.	2.0	17
120	Polyethylene glycolâ€“gum acacia-based multidrug delivery system for controlled delivery of anticancer drugs. Polymer Bulletin, 2019, 76, 5011-5037.	1.7	17
121	Improving the durability of tillage tools through surface modificationâ€”a review. International Journal of Advanced Manufacturing Technology, 2021, 116, 83-98.	1.5	17
122	Silver nanoparticles incorporated within intercalated clay/polymer nanocomposite hydrogels for antibacterial studies. Polymer Composites, 2017, 38, E16-E23.	2.3	16
123	Polyolefins and the environment. , 2017, , 89-133.		16
124	Depth filtration of airborne agglomerates using electrospun bio-based polylactide membranes. Journal of Environmental Chemical Engineering, 2018, 6, 762-772.	3.3	16
125	Optimization of spark plasma sintering parameters of inconel 738LC alloy using response surface methodology (RSM). International Journal of Lightweight Materials and Manufacture, 2020, 3, 177-188.	1.3	16
126	Enhanced reactivity of geopolymers produced from fluidized bed combustion bottom ash. South African Journal of Chemical Engineering, 2020, 34, 72-77.	1.2	16

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127	Progress in the drug encapsulation of poly(lactic-co-glycolic acid) and folate-decorated poly(ethylene glycol)â€“poly(lactic-co-glycolic acid) conjugates for selective cancer treatment. Journal of Materials Chemistry B, 2022, 10, 4127-4141.	2.9	16
128	Effect of Boehmite Alumina Nanofiller Incorporation on the Morphology and Thermal Properties of Functionalized Poly(propylene)/Polyamide 12 Blends. Macromolecular Materials and Engineering, 2012, 297, 237-248.	1.7	15
129	Crosslinking Trends in Multicomponent Hydrogels for Biomedical Applications. Macromolecular Bioscience, 2021, 21, e2100232.	2.1	15
130	Emerging Advancements in Polypyrrole MXene Hybrid Nanoarchitectonics for Capacitive Energy Storage Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1521-1540.	1.9	15
131	An investigation of copper oxide-loaded reduced graphene oxide nanocomposite for energy storage applications. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	15
132	Synthesis, characterization, and antiplasmodial activity of polymerâ€incorporated aminoquinolines. Journal of Biomedical Materials Research - Part A, 2014, 102, 1941-1949.	2.1	14
133	Effect of fibre loading on mechanical and thermal properties of sisal and kenaf fibre-reinforced injection moulded composites. Journal of Reinforced Plastics and Composites, 2014, 33, 283-293.	1.6	14
134	Synthesis, characterization and in vitro cytotoxicity evaluation of polyamidoamine conjugate containing pamidronate and platinum drug. Journal of Drug Delivery Science and Technology, 2018, 43, 267-273.	1.4	14
135	Compounding and the mechanical properties of catla fish scales reinforced-polypropylene compositeâ€“from biowaste to biomaterial. Advanced Composite Materials, 2020, 29, 115-128.	1.0	14
136	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
137	Biocidal activity of Ba²⁺-doped CeO₂ NPs against Streptococcus mutans and Staphylococcus aureus bacterial strains. RSC Advances, 2021, 11, 30623-30634.	1.7	14
138	Spark plasma sintering of Inconel 738LC: densification and microstructural characteristics. Materials Research Express, 2019, 6, 1065g8.	0.8	13
139	Mechanical properties of high density polyethylene matrix composites reinforced with chitosan particles. Materials Today: Proceedings, 2021, 38, 682-687.	0.9	13
140	Effect of water glass treatment on the mechanical and thermooxidative properties of kenaf and sisal fibres. Journal of Reinforced Plastics and Composites, 2012, 31, 1261-1269.	1.6	12
141	Targeted drug delivery potential of hydrogel biocomposites containing partially and thermally reduced graphene oxide and natural polymers prepared via green process. Colloid and Polymer Science, 2015, 293, 409-420.	1.0	12
142	Mechanical and wear behaviour of polylactic acid matrix composites reinforced with crab-shell synthesized chitosan microparticles. Materials Today: Proceedings, 2021, 38, 999-1005.	0.9	12
143	Electrical resistance control model for polypyrrole-graphene nanocomposite: Energy storage applications. Materials Today Communications, 2021, 26, 101699.	0.9	12
144	The Rheological and Mechanical Properties of Ethylene-Vinyl Acetate (EVA) Copolymer and Organoclay Nanocomposites. Journal of Reinforced Plastics and Composites, 2010, 29, 558-570.	1.6	11

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145	Effect of Alkali Treatment on the Morphology and Tensile Properties of Cordia Dichotoma Fabric/Polycarbonate Composites. Advances in Polymer Technology, 2013, 32, .	0.8	11
146	Porous and fractal analysis on the permeability of nanofiltration membranes for the removal of metal ions. Journal of Materials Science, 2016, 51, 2499-2511.	1.7	11
147	Micostructural and Mechanical Properties of Geopolymers Synthesized from Three Coal Fly Ashes from South Africa. Energy & Fuels, 2017, 31, 1712-1722.	2.5	11
148	Adsorptive Performance Mechanism of the DNA of Calf Thymus Gland (CTGDNA) on 3CR12 Stainless Steel as Corrosion Inhibitor in Acidic Medium. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	1.2	11
149	Polylactic acid/graphene nanocomposite consolidated by SPS technique. Journal of Materials Research and Technology, 2020, 9, 11801-11812.	2.6	11
150	Polymers blends for the improvement of nanofiltration membranes in wastewater treatment: A short review. Materials Today: Proceedings, 2021, 43, 3365-3368.	0.9	11
151	A Review on Corrosion in Concrete Structure: Inhibiting Admixtures and Their Compatibility in Concrete. Journal of Bio- and Tribo-Corrosion, 2022, 8, 1.	1.2	11
152	Synthesis and characterization of polyamidoamine conjugates of neridronic acid. Polymer Bulletin, 2015, 72, 417-439.	1.7	10
153	Nanomembrane Materials Based on Polymer Blends. , 2016, , 101-123.		10
154	Preparation of antibacterial temperatureâ€sensitive silverâ€nanocomposite hydrogels from Nâ€isopropylacrylamide with green tea. Journal of Applied Polymer Science, 2018, 135, 45739.	1.3	10
155	Improving mechanical and thermal properties of graphiteâ€“aluminium composite using Si, SiC and eggshell particles. Journal of Composite Materials, 2020, 54, 2365-2376.	1.2	10
156	Multiscale analysis and experimental validation of the effective elastic modulus of epoxy-dioctahedral phyllosilicate clay composite. Heliyon, 2020, 6, e04008.	1.4	10
157	Determination of antifungal activities of essential oils incorporated-pomegranate peel fibers reinforced-polyvinyl alcohol biocomposite film against mango postharvest pathogens. Materials Today: Proceedings, 2021, 38, 923-927.	0.9	10
158	Novel Systems and Membrane Technologies for Carbon Capture. International Journal of Chemical Engineering, 2021, 2021, 1-23.	1.4	10
159	Comparative study of high velocity impact response of aluminium 3105-H18 and carbon fibre-epoxy composite double hat bumper beams. Materials Today: Proceedings, 2021, 38, 712-716.	0.9	10
160	Physicochemical and Engineering Properties of Nanocomposite Films Based on Chitosan and Pseudoboehmite Alumina. Food and Bioprocess Technology, 2014, 7, 2423-2433.	2.6	9
161	Development of microbial protective <scp>K</scp>olliphorâ€based nanocomposite hydrogels. Journal of Applied Polymer Science, 2015, 132, .	1.3	9
162	Microscopical characterizations of nanofiltration membranes for the removal of nickel ions from aqueous solution. Korean Journal of Chemical Engineering, 2015, 32, 731-742.	1.2	9

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163	Thermal, structural and morphological properties of High Density Polyethylene matrix composites reinforced with submicron agro silica particles and Titania particles. Journal of Taibah University for Science, 2017, 11, 645-653.	1.1	9
164	Automotive components composed of polyolefins. , 2017, , 449-496.		9
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