

Rotimi E Sadiku

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

299
papers

5,206
citations

36
h-index

61
g-index

326
ext. papers

6,596
ext. citations

3.7
avg, IF

6.44
L-index

#	Paper	IF	Citations
299	On energy storage capacity of conductive MXene hybrid nanoarchitectures. <i>Journal of Energy Storage</i> , 2022 , 45, 103686	7.8	5
298	Influence of sintering temperature on the microstructure, mechanical and tribological properties of ZrO ₂ reinforced spark plasma sintered NiCr. <i>International Journal of Lightweight Materials and Manufacture</i> , 2022 , 5, 188-196	2.2	0
297	Microstructure and Mechanical Properties of Spark Plasma-Sintered Graphene-Reinforced Inconel 738 Low Carbon Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022 , 53, 299	2.3	0
296	Antifungal activity of wild bergamot (<i>Monarda fistulosa</i>) essential oil against postharvest fungal pathogens of banana fruits. <i>South African Journal of Botany</i> , 2022 , 144, 166-174	2.9	2
295	Extraction of cellulose nanocrystals from areca waste and its application in eco-friendly biocomposite film. <i>Chemosphere</i> , 2022 , 287, 132084	8.4	11
294	Computational Modeling of the Bio-nanocomposites. <i>Composites Science and Technology</i> , 2022 , 217-235		
293	Effect of Borophene and Graphene on the Elastic Modulus of PEDOT:PSS Film: A Finite Element Study. <i>Condensed Matter</i> , 2022 , 7, 22	1.8	1
292	Spark Plasma Sintering of Copper-Niobium-Graphite Composites, and the Investigations of Their Microstructure and Properties. <i>Metals</i> , 2022 , 12, 574	2.3	
291	Computational biomechanical and biodegradation integrity assessment of Mg-based biomedical devices for cardiovascular and orthopedic applications: A review. <i>International Journal of Lightweight Materials and Manufacture</i> , 2022 , 5, 251-266	2.2	0
290	A Review on Corrosion in Concrete Structure: Inhibiting Admixtures and Their Compatibility in Concrete. <i>Journal of Bio- and Tribo-Corrosion</i> , 2022 , 8, 1	2.9	0
289	An investigation of copper oxide-loaded reduced graphene oxide nanocomposite for energy storage applications. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	2
288	Polymeric materials for autoimmune diseases 2022 , 403-425		
287	Moderne tegnologie wat gebruik word om suurmyndreinerings te behandel deur gebruik te maak van 'n polimeergebaseerde adsorbeeringsmiddel (chitosaan en natuurlike vesels). <i>South African Journal of Science and Technology</i> , 2022 , 1, 27-32	0.1	
286	Polymers used in green synthesis of nanoparticles and their importance in pharmaceutical and biomedical applications 2022 , 125-163		0
285	The significance of biomacromolecule alginate for the 3D printing of hydrogels for biomedical applications. <i>International Journal of Biological Macromolecules</i> , 2022 , 212, 561-578	7.9	2
284	Wet ball milling of niobium by using ethanol, determination of the crystallite size and microstructures. <i>Scientific Reports</i> , 2021 , 11, 22422	4.9	1
283	Crosslinking Trends in Multicomponent Hydrogels for Biomedical Applications. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100232	5.5	3

282 Incorporation of Cellulose Nanomaterials into Membrane Materials for Water Treatment **2021**, 1-21

281 Computational Study of Graphene-Polypyrrole Composite Electrical Conductivity. *Nanomaterials*, **2021**, 11, 5.4 2

280 DNA Inhibition of Hydrogen Ion-Induced Corrosion of Mild Steel Used for Pipelines in Oil and Gas Industries. *Asian Journal of Chemistry*, **2021**, 33, 767-774 0.4 1

279 Investigation and Modeling of the Electrical Conductivity of Graphene Nanoplatelets-Loaded Doped-Polypyrrole. *Polymers*, **2021**, 13, 4.5 8

278 Electrical resistance control model for polypyrrole-graphene nanocomposite: Energy storage applications. *Materials Today Communications*, **2021**, 26, 101699 2.5 4

277 Spark plasma sintering of polymer and polymer-based composites: a review. *International Journal of Advanced Manufacturing Technology*, **2021**, 116, 759-775 3.2 3

276 Biocidal (bacterial and cancer cells) activities of chitosan/CuO nanomaterial, synthesized via a green process. *Carbohydrate Polymers*, **2021**, 259, 117762 10.3 14

275 Improving the durability of tillage tools through surface modification—review. *International Journal of Advanced Manufacturing Technology*, **2021**, 116, 83-98 3.2 7

274 Biocidal chitosan-magnesium oxide nanoparticles via a green precipitation process. *Journal of Hazardous Materials*, **2021**, 411, 124884 12.8 12

273 Mechanical properties of high density polyethylene matrix composites reinforced with chitosan particles. *Materials Today: Proceedings*, **2021**, 38, 682-687 1.4 10

272 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 3.2 12

271 Theoretical analysis of borophene for lithium ion electrode. *Materials Today: Proceedings*, **2021**, 38, 485-489 2

270 Investigation of graphene loaded polypyrrole for lithium-ion battery. *Materials Today: Proceedings*, **2021**, 38, 635-638 1.4 7

269 Influence of sintering temperature on microstructure and mechanical properties of graphene-reinforced Inconel 738 LC composites. *Materials Today: Proceedings*, **2021**, 38, 743-748 1.4 1

268 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 1.4 5

267 Physical, antifungal, and biodegradable properties of cellulose nanocrystals and chitosan nanoparticles for food packaging application. *Materials Today: Proceedings*, **2021**, 38, 860-869 1.4 8

266 Mechanical and wear behaviour of polylactic acid matrix composites reinforced with crab-shell synthesized chitosan microparticles. *Materials Today: Proceedings*, **2021**, 38, 999-1005 1.4 7

265 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 1.4 3

264	Experimental investigation of thermal and physical properties of nanocomposites for power cable insulations. <i>Materials Today: Proceedings</i> , 2021 , 38, 823-829	1.4	0
263	Development of bacterial resistant acrylamide-polyvinylpyrrolidone-metal oxide hydrogel nanocomposites. <i>Materials Today: Proceedings</i> , 2021 , 38, 982-987	1.4	
262	Polymers blends for the improvement of nanofiltration membranes in wastewater treatment: A short review. <i>Materials Today: Proceedings</i> , 2021 , 43, 3365-3368	1.4	6
261	Response Surface Analysis of the Corrosion Effect of Metakaolin in Reinforced Concrete. <i>Silicon</i> , 2021 , 13, 2053-2061	2.4	4
260	Development of antifungal biocomposite film against postharvest pathogens <i>Colletotrichum gloeosporioides</i> and <i>Lasiodiplodia theobromae</i> . <i>Materials Today: Proceedings</i> , 2021 , 38, 1113-1120	1.4	1
259	Evaluation of chitosan/sisal fiber/polyethylene membranes. <i>Materials Today: Proceedings</i> , 2021 , 43, 832-837		
258	Synthesis and characterisation of polypropylene nanocomposites for food packaging material. <i>Materials Today: Proceedings</i> , 2021 , 38, 1197-1202	1.4	3
257	Surface roughness of ternary blends: Polypropylene/chitosan/sisal fiber membranes. <i>Materials Today: Proceedings</i> , 2021 , 38, 2342-2346	1.4	1
256	Synthesis methods of borophene, graphene-loaded polypyrrole nanocomposites and their benefits for energy storage applications: A brief overview. <i>FlatChem</i> , 2021 , 26, 100211	5.1	6
255	Novel Systems and Membrane Technologies for Carbon Capture. <i>International Journal of Chemical Engineering</i> , 2021 , 2021, 1-23	2.2	4
254	Comparative study of high velocity impact response of aluminium 3105-H18 and carbon fibre-epoxy composite double hat bumper beams. <i>Materials Today: Proceedings</i> , 2021 , 38, 712-716	1.4	6
253	Biocidal activity of Ba-doped CeO NPs against and bacterial strains.. <i>RSC Advances</i> , 2021 , 11, 30623-30634	3.7	2
252	Materials from Agricultural Wastes 2021 , 2459-2474		
251	Nanocomposites of PEDOT:PSS with Graphene and its Derivatives for Flexible Electronic Applications: A Review. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000716	3.9	17
250	Development, characterization and comparison of spark plasma-sintered GrCu and GrAl composites reinforced with SiC and ZrB ₂ particles for thermal management. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 4672-4685	2.1	
249	Development and microstructural analysis of beta-SiAlONs produced by spark plasma sintering. <i>Materials Today: Proceedings</i> , 2021 , 38, 590-594	1.4	1
248	A Review on Polymer Nanocomposites and Their Effective Applications in Membranes and Adsorbents for Water Treatment and Gas Separation. <i>Membranes</i> , 2021 , 11,	3.8	38
247	Use of modified atmosphere packaging combined with essential oils for prolonging post-harvest shelf life of mango (cv. Banganapalli and cv. Totapuri). <i>LWT - Food Science and Technology</i> , 2021 , 148, 111662	5.4	9

246	Recent progress on 2D metal carbide/nitride (MXene) nanocomposites for lithium-based batteries. <i>FlatChem</i> , 2021 , 29, 100281	5.1	6
245	Mechanical properties of cellulose nanofibril papers and their bionanocomposites: A review. <i>Carbohydrate Polymers</i> , 2021 , 273, 118507	10.3	4
244	The Roles of Sensor Placement in Water Quality Monitoring in a Water Distribution System. <i>Advanced Sciences and Technologies for Security Applications</i> , 2021 , 47-66	0.6	
243	Carbon Fiber Composites 2021 , 85-115		
242	Comparative study of graphene-polypyrrole and borophene-polypyrrole composites: molecular dynamics modeling approach. <i>Engineering Solid Mechanics</i> , 2021 , 9, 311-322	1.3	2
241	Effect of sintering temperatures on the properties of in-situ copper-niobium-titanium di-boride composites. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	
240	A review on the impact of mining operation: Monitoring, assessment and management. <i>Results in Engineering</i> , 2020 , 8, 100181	3.3	28
239	Development of bacterial-resistant electrospun polylactide membrane for air filtration application: Effects of reduction methods and their loadings. <i>Polymer Degradation and Stability</i> , 2020 , 178, 109205	4.7	11
238	GrAl composite reinforced with Si ₃ N ₄ and SiC particles for enhanced microhardness and reduced thermal expansion. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	3
237	Enhanced reactivity of geopolymers produced from fluidized bed combustion bottom ash. <i>South African Journal of Chemical Engineering</i> , 2020 , 34, 72-77	3.2	6
236	The Role of Two-Step Blending in the Properties of Starch/Chitin/Polylactic Acid Biodegradable Composites for Biomedical Applications. <i>Polymers</i> , 2020 , 12,	4.5	11
235	Biodegradable Antibiotic Importers in Medicine 2020 , 65-92		2
234	Inhibition of Bacterial Growth and Removal of Antibiotic-Resistant Bacteria From Wastewater 2020 , 159-170		1
233	Nosocomial Bacterial Infection of Orthopedic Implants and Antibiotic Hydroxyapatite/Silver-Coated Halloysite Nanotube With Improved Structural Integrity as Potential Prophylaxis 2020 , 171-220		
232	Electrospun Alginate Nanofibers Toward Various Applications: A Review. <i>Materials</i> , 2020 , 13,	3.5	37
231	Mechanical property prediction of SPS processed GNP/PLA polymer nanocomposite using artificial neural network. <i>Cogent Engineering</i> , 2020 , 7, 1720894	1.5	8
230	Sustainable Chemicals: A Brief Survey of the Furans. <i>Chemistry Africa</i> , 2020 , 3, 481-496	2.2	13
229	Alginate-based composite materials for wound dressing application:A mini review. <i>Carbohydrate Polymers</i> , 2020 , 236, 116025	10.3	198

228	Plastics in municipal drinking water and wastewater treatment plant effluents: challenges and opportunities for South Africa-a review. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 12953-12966	5.1	12
227	Bioelectrochemical Technology for Sustainable Energy Production and Waste Treatment 2020 , 131-175		
226	3D Printing of Fiber Reinforced Polymer Nanocomposites: Additive Manufacturing 2020 , 1-29		2
225	Carbon Fiber Composites 2020 , 1-32		
224	Fabrication of Bionanocomposites from Chitin 2020 , 11-21		
223	Thermodynamic, Adsorption Isotherms and Electrochemical Investigations of Nickel Electroplating on Mild Steel in Electrolyte Containing Deoxyribonucleic Acid from Citrus aurantium as Additive. <i>Surface Engineering and Applied Electrochemistry</i> , 2020 , 56, 684-696	0.8	
222	The Use of Ecofriendly Recycled Polymer Composites in Boat Building 2020 , 1-26		
221	Nanotechnology in Wastewater and the Capacity of Nanotechnology for Sustainability. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 1-45	0.8	3
220	Role and Characterization of Nano-Based Membranes for Environmental Applications. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 295-352	0.8	1
219	Effect of controlled pH and concentrations of copper sulphate and silver nitrate solutions during nanoparticles synthesis towards modifying compressor oil yield stress and lubricity for improved refrigeration. <i>Heat and Mass Transfer</i> , 2020 , 56, 931-961	2.2	1
218	Development of high alginate comprised hydrogels for removal of Pb(II) ions. <i>Journal of Molecular Liquids</i> , 2020 , 298, 112087	6	19
217	Experimental investigation of modified bentonite clay-crumbs rubber concrete. <i>Construction and Building Materials</i> , 2020 , 233, 117187	6.7	19
216	Corrosion and Wear Behaviour of Spark Plasma-Sintered NiCrCoAlTiW-Ta Superalloy. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020 , 6, 1	2.9	25
215	Thermal properties of spark plasma -sintered polylactide/graphene composites. <i>Materials Chemistry and Physics</i> , 2020 , 242, 122545	4.4	7
214	Antibiotic copper oxide-curcumin nanomaterials for antibacterial applications. <i>Journal of Molecular Liquids</i> , 2020 , 300, 112353	6	32
213	Improving mechanical and thermal properties of graphite/aluminium composite using Si, SiC and eggshell particles. <i>Journal of Composite Materials</i> , 2020 , 54, 2365-2376	2.7	6
212	Development and application of nanocomposite for sustainable rail vehicle with low environmental footprint. <i>International Journal of Lightweight Materials and Manufacture</i> , 2020 , 3, 193-197	2.2	
211	Prospects of DNA Macromolecule for Corrosion Inhibitor Applications: A Mini Review. <i>Journal of Bio- and Tribo-Corrosion</i> , 2020 , 6, 1	2.9	3

210	Polylactic acid/graphene nanocomposite consolidated by SPS technique. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11801-11812	5.5	4
209	Multiscale analysis and experimental validation of the effective elastic modulus of epoxy-dioctahedral phyllosilicate clay composite. <i>Heliyon</i> , 2020 , 6, e04008	3.6	5
208	Study of low-rank high sulfur coal fine with biomass. <i>Current Research in Green and Sustainable Chemistry</i> , 2020 , 3, 100023	4.1	1
207	Carboxymethyl cellulose-based materials for infection control and wound healing: A review. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 963-975	7.9	87
206	Morphology, Thermal Stability, and Flammability Properties of Polymer-Layered Double Hydroxide (LDH) Nanocomposites: A Review. <i>Crystals</i> , 2020 , 10, 612	2.3	22
205	Data on the engineering properties of aluminum dross as a filler in asphalt. <i>Data in Brief</i> , 2020 , 31, 105934	3.4	0
204	Statistical characterization and simulation of graphene-loaded polypyrrole composite electrical conductivity. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15788-15801	5.5	6
203	Biomolecule chitosan, curcumin and ZnO-based antibacterial nanomaterial, via a one-pot process. <i>Carbohydrate Polymers</i> , 2020 , 249, 116825	10.3	30
202	Poly(lactic acid)-silkworm silk fibre/fibroin bio-composites: A review of their processing, properties, and nascent applications. <i>EXPRESS Polymer Letters</i> , 2020 , 14, 924-951	3.4	2
201	Development and preliminary process design of beta-SiAlONs by the spark plasma sintering process. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 109, 2603-2613	3.2	1
200	Improved mechanical and wear characteristics of hypereutectic aluminium-Silicon alloy matrix composites and empirical modelling of the wear response. <i>Cogent Engineering</i> , 2020 , 7, 1787010	1.5	0
199	Spark Plasma Sintering of Graphene-Reinforced Inconel 738LC Alloy: Wear and Corrosion Performance. <i>Metals and Materials International</i> , 2020 , 1	2.4	1
198	Development of an Algorithm for the Estimation of Contamination Sources in a Water Distribution Network. <i>IEEE Access</i> , 2020 , 8, 200412-200419	3.5	2
197	Prospects of nanostructured composite materials for energy harvesting and storage. <i>Journal of King Saud University - Science</i> , 2020 , 32, 758-764	3.6	12
196	Optimization of spark plasma sintering parameters of inconel 738LC alloy using response surface methodology (RSM). <i>International Journal of Lightweight Materials and Manufacture</i> , 2020 , 3, 177-188	2.2	4
195	Compounding and the mechanical properties of catla fish scales reinforced-polypropylene composite from biowaste to biomaterial. <i>Advanced Composite Materials</i> , 2020 , 29, 115-128	2.8	7
194	Spark plasma sintering of nickel and nickel based alloys: A Review. <i>Procedia Manufacturing</i> , 2019 , 35, 1324-1329	1.5	13
193	Polypropylene/nanoclay Composite: A solution to refrigerated vehicles. <i>Procedia Manufacturing</i> , 2019 , 35, 174-180	1.5	4

192	Influence of sintering temperature on microstructural evolution of spark plasma sintered Inconel738LC. <i>Procedia Manufacturing</i> , 2019 , 35, 1152-1157	1.5	5
191	Production and Application of Advanced Composite Materials in Rail Cars Development: Prospect in South African Industry. <i>Procedia Manufacturing</i> , 2019 , 35, 471-476	1.5	2
190	Thermal and rheological properties of polyamide 6/layered double hydroxide clay composites. <i>Polymers and Polymer Composites</i> , 2019 , 27, 567-581	0.8	2
189	Morphology and Properties of Electrospun PCL and Its Composites for Medical Applications: A Mini Review. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2205	2.6	79
188	Adsorptive Performance Mechanism of the DNA of Calf Thymus Gland (CTGDNA) on 3CR12 Stainless Steel as Corrosion Inhibitor in Acidic Medium. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019 , 5, 1	2.9	8
187	Optimization of SPS processing parameters on the density and hardness properties of graphene reinforced polylactic acid nanocomposite. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 4047-4058	3.2	14
186	Advancement in Material Coating for Engineering Applications 2019 , 473-498		
185	Advanced Materials for Laser Surface Cladding: Processing, Manufacturing, Challenges and Future Prospects 2019 , 563-615		1
184	Temperature-sensitive semi-IPN composite hydrogels for antibacterial applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 572, 307-316	5.1	12
183	Mechanical evaluation of hybrid natural fibre reinforced polymeric composites for automotive bumper beam: a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 1781-1797	3.2	35
182	Correlations between Fibre Diameter, Physical Parameters, and the Mechanical Properties of Randomly Oriented Biobased Polylactide Nanofibres. <i>Fibers and Polymers</i> , 2019 , 20, 100-112	2	13
181	Wear and corrosion studies of graphite-aluminum composite reinforced with micro/nano-TiB ₂ via spark plasma sintering. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2019 , 50, 126-139	0.9	3
180	Influence of sintering temperature on the corrosion and wear behaviour of spark plasma sintered Inconel 738LC alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 4195-4206	3.2	14
179	Opportunities for PLA and Its Blends in Various Applications. <i>Materials Horizons</i> , 2019 , 55-81	0.6	1
178	Biocomposite Reinforced with Nanocellulose for Packaging Applications. <i>Materials Horizons</i> , 2019 , 83-123	3.6	2
177	Biopolymer Composites and Bionanocomposites for Energy Applications. <i>Materials Horizons</i> , 2019 , 313-346	3.4	5
176	The Use of Chitosan in Food Packaging Applications. <i>Materials Horizons</i> , 2019 , 125-136	0.6	3
175	Mechanical performance and water uptake behaviour of treated bamboo fibre-reinforced high-density polyethylene composites. <i>Heliyon</i> , 2019 , 5, e02028	3.6	30

174	Morphological characterization, in vitro biomedical corrosion and corrosion behaviour of As-Cast Cu-Zn-Al-FeMn alloys in selected intravenous and industrial fluids. <i>Materials Research Express</i> , 2019 , 6, 096567	1.7	1
173	Development of a Contaminant Distribution Model for Water Supply Systems. <i>Water (Switzerland)</i> , 2019 , 11, 1510	3	2
172	Parametric Analysis of Electrical Conductivity of Polymer-Composites. <i>Polymers</i> , 2019 , 11,	4.5	17
171	Cytotoxicity and in vitro evaluation of whey protein-based hydrogels for diabetes mellitus treatment. <i>International Journal of Industrial Chemistry</i> , 2019 , 10, 213-223	3.1	2
170	Microstructural characteristics and thermophysical properties of spark plasma sintered Inconel 738LC. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 1425-1436	3.2	11
169	Effect of Cloisite [®] 20A Reinforced Polypropylene Nanocomposite for Thermal Insulation 2019 ,		2
168	Spark plasma sintering of Inconel 738LC: densification and microstructural characteristics. <i>Materials Research Express</i> , 2019 , 6, 1065g8	1.7	7
167	Adaptation and Viability of Graphene-Based Materials in Clinical Improvement 2019 , 79-98		
166	Properties and Characterization of a PLA-Chitin-Starch Biodegradable Polymer Composite. <i>Polymers</i> , 2019 , 11,	4.5	21
165	Thermo-mechanical simulation of steam turbine blade with spark plasma sintering fabricated Inconel 738LC superalloy properties. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 655, 012046	0.4	2
164	Sustainability, Research, and Development of Graphene for Engineering Applications 2019 , 147-190		
163	Application of Biosynthesized Nanoparticles in Food, Food Packaging and Dairy Industries 2019 , 145-158		1
162	Bacterial Synthesis of Nanoparticles and Their Applications 2019 , 19-30		
161	Preparation and Properties of Nanocomposites for Energy Applications 2019 , 3-41		
160	Nanostructured Materials and Composites for Renewable Energy 2019 , 91-119		
159	Influence of partial substitution of sand with crumb rubber on the microstructural and mechanical properties of concrete in Pretoria, South Africa. <i>International Journal of Environment and Waste Management</i> , 2019 , 24, 39	0.9	5
158	Application of nanoparticles and composite materials for energy generation and storage. <i>IET Nanodielectrics</i> , 2019 , 2, 115-122	2.8	15
157	Effect of nickel powder particle size on the microstructure and thermophysical properties of spark plasma sintered NiCrCoAlTiW-Ta superalloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 655, 012031	0.4	2

156	Considering the use of niobium and titanium to enhance electrical and mechanical properties of copper at higher operational temperature application. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	2
155	Polyethylene glycol-gum acacia-based multidrug delivery system for controlled delivery of anticancer drugs. <i>Polymer Bulletin</i> , 2019 , 76, 5011-5037	2.4	8
154	Recent progress on natural fiber hybrid composites for advanced applications: A review. <i>EXPRESS Polymer Letters</i> , 2019 , 13, 159-198	3.4	185
153	Characterization and in vitro release kinetics of antimalarials from whey protein-based hydrogel biocomposites. <i>International Journal of Industrial Chemistry</i> , 2018 , 9, 39-52	3.1	22
152	Analysis of clean coal technology in Nigeria for energy generation. <i>Energy Strategy Reviews</i> , 2018 , 20, 64-70	9.8	16
151	Development of polyvinyl alcohol/chitosan bio-nanocomposite films reinforced with cellulose nanocrystals isolated from rice straw. <i>Applied Surface Science</i> , 2018 , 449, 591-602	6.7	90
150	Depth filtration of airborne agglomerates using electrospun bio-based polylactide membranes. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 762-772	6.8	12
149	A potential utilization of end-of-life tyres as recycled carbon black in EPDM rubber. <i>Waste Management</i> , 2018 , 74, 110-122	8.6	29
148	Effects of multiscale rice straw (<i>Oryza sativa</i>) as reinforcing filler in montmorillonite-polyvinyl alcohol biocomposite packaging film for enhancing the storability of postharvest mango fruit (<i>Mangifera indica</i> L.). <i>Applied Clay Science</i> , 2018 , 158, 1-10	5.2	26
147	Preparation of antibacterial temperature-sensitive silver-nanocomposite hydrogels from N-isopropylacrylamide with green tea. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45739	2.9	9
146	Characterization of an exopolysaccharide produced by <i>Lactobacillus plantarum</i> HM47 isolated from human breast milk. <i>Process Biochemistry</i> , 2018 , 73, 15-22	4.8	30
145	Rutile Titania-Filled Polyethylene Composites: Microstructural Evolution, Empirical Modeling of the Mechanical Properties and Comparative Validation of the Quasi-Elastic Modulus Using Micromechanical Models. <i>Fibers and Polymers</i> , 2018 , 19, 1347-1358	2	1
144	Towards Development of an Optimization Model to Identify Contamination Source in a Water Distribution Network. <i>Water (Switzerland)</i> , 2018 , 10, 579	3	21
143	ENGINEERING PROPERTIES OF CONCRETE WITH SAND PARTIALLY SUBSTITUTED WITH CRUMB RUBBER 2018 ,		3
142	Synthesis, characterization and in vitro cytotoxicity evaluation of polyamidoamine conjugate containing pamidronate and platinum drug. <i>Journal of Drug Delivery Science and Technology</i> , 2018 , 43, 267-273	4.5	8
141	Effect of titanium addition on the microstructure, electrical conductivity and mechanical properties of copper by using SPS for the preparation of Cu-Ti alloys. <i>Journal of Alloys and Compounds</i> , 2018 , 736, 163-171	5.7	20
140	A state-of-the-art review of an optimal sensor placement for contaminant warning system in a water distribution network. <i>Urban Water Journal</i> , 2018 , 15, 985-1000	2.3	19
139	Recent developments in polymeric electrospun nanofibrous membranes for seawater desalination.. <i>RSC Advances</i> , 2018 , 8, 37915-37938	3.7	32

138	Investigation and development of a numerical tool for the prediction and influence of natural fibre poroelastic trim behaviour on automotive cabin noise. <i>Cogent Engineering</i> , 2018 , 5, 1548992	1.5	2
137	Nanotechnology in Paints and Coatings 2018 , 175-233		0
136	Thermoplastic Processing of PLA/Cellulose Nanomaterials Composites. <i>Polymers</i> , 2018 , 10,	4.5	66
135	Polymeric Materials in Coatings for Biomedical Applications 2018 , 481-518		1
134	Silver nanoparticles incorporated within intercalated clay/polymer nanocomposite hydrogels for antibacterial studies. <i>Polymer Composites</i> , 2017 , 38, E16-E23	3	12
133	Characterization of Two Nanofiltration Membranes for the Separation of Ions from Acid Mine Water. <i>Mine Water and the Environment</i> , 2017 , 36, 401-408	2.4	15
132	A comparative study of geopolymers synthesized from OXY-combustion and chemical looping combustion bottom ashes. <i>Construction and Building Materials</i> , 2017 , 136, 246-255	6.7	6
131	Removal of dye by carboxymethyl cellulose, acrylamide and graphene oxide via a free radical polymerization process. <i>Carbohydrate Polymers</i> , 2017 , 164, 186-194	10.3	95
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