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List of Publications by Citations

315 papers	10,313 citations	58 h-index	90 g-index
345 ext. papers	13,589 ext. citations	3.9 avg, IF	7.29 L-index

#	Paper	IF	Citations
315	Isolation and characterization of nanocrystalline cellulose from sugar palm fibres (Arenga Pinnata). *Carbohydrate Polymers*, **2018**, 181, 1038-1051	10.3	296
314	Development and characterization of sugar palm nanocrystalline cellulose reinforced sugar palm starch bionanocomposites. *Carbohydrate Polymers*, **2018**, 202, 186-202	10.3	256
313	Mechanical properties of hybrid kenaf/glass reinforced epoxy composite for passenger car bumper beam. *Materials & Design*, **2010**, 31, 4927-4932		255
312	Mechanical properties of pineapple leaf fibre reinforced polypropylene composites. *Materials & Design*, **2006**, 27, 391-396		229
311	Influence of fiber content on the mechanical and thermal properties of Kenaf fiber reinforced thermoplastic polyurethane composites. *Materials & Design*, **2012**, 40, 299-303		219
310	Mechanical properties of woven banana fibre reinforced epoxy composites. *Materials & Design*, **2006**, 27, 689-693		209
309	The effect of alkaline treatment on tensile properties of sugar palm fibre reinforced epoxy composites. *Materials & Design*, **2008**, 29, 1285-1290		200
308	Effect of layering sequence and chemical treatment on the mechanical properties of woven kenaf□ramid hybrid laminated composites. *Materials & Design*, **2015**, 67, 173-179		186
307	Nanocrystalline Cellulose as Reinforcement for Polymeric Matrix Nanocomposites and its Potential Applications: A Review. *Current Analytical Chemistry*, **2018**, 14, 203-225	1.7	163
306	Sugar palm nanofibrillated cellulose (Arenga pinnata (Wurmb.) Merr): Effect of cycles on their yield, physic-chemical, morphological and thermal behavior. *International Journal of Biological Macromolecules*, **2019**, 123, 379-388	7.9	154
305	Sugar palm (Arenga pinnata (Wurmb.) Merr) cellulosic fibre hierarchy: a comprehensive approach from macro to nano scale. *Journal of Materials Research and Technology*, **2019**, 8, 2753-2766	5.5	152
304	Sugar palm (Arenga pinnata): Its fibres, polymers and composites. *Carbohydrate Polymers*, **2013**, 91, 699-710	10.9	151
303	Natural fiber reinforced conductive polymer composites as functional materials: A review. *Synthetic Metals*, **2015**, 206, 42-54	3.6	143
302	Hybrid natural and glass fibers reinforced polymer composites material selection using Analytical Hierarchy Process for automotive brake lever design. *Materials & Design*, **2013**, 51, 484-492		139
301	Effect of sugar palm nanofibrillated cellulose concentrations on morphological, mechanical and physical properties of biodegradable films based on agro-waste sugar palm (Arenga pinnata (Wurmb.) Merr) starch. *Journal of Materials Research and Technology*, **2019**, 8, 4819-4830	5.5	137
300	Transparent and antimicrobial cellulose film from ginger nanofiber. *Food Hydrocolloids*, **2020**, 98, 105266	10.6	135
299	Effect of delignification on the physical, thermal, chemical, and structural properties of sugar palm fibre. *BioResources*, **2017**, 12, 8734-8754	1.3	134

298	A simple method for improving the properties of the sago starch films prepared by using ultrasonication treatment. *Food Hydrocolloids*, **2019**, 93, 276-283	10.6	132
297	Fibre properties and crashworthiness parameters of natural fibre-reinforced composite structure: A literature review. *Composite Structures*, **2016**, 148, 59-73	5.3	132
296	Influence of fiber content on mechanical, morphological and thermal properties of kenaf fibers reinforced poly(vinyl chloride)/thermoplastic polyurethane poly-blend composites. *Materials & Design*, **2014**, 58, 130-135		123
295	Development and characterization of sugar palm starch and poly(lactic acid) bilayer films. *Carbohydrate Polymers*, **2016**, 146, 36-45	10.3	112
294	Recent developments in sugar palm (Arenga pinnata) based biocomposites and their potential industrial applications: A review. *Renewable and Sustainable Energy Reviews*, **2016**, 54, 533-549	16.2	111
293	Mechanical and thermal properties of environmentally friendly composites derived from sugar palm tree. *Materials & Design*, **2013**, 49, 285-289		107
292	Concept selection of car bumper beam with developed hybrid bio-composite material. *Materials & Design*, **2011**, 32, 4857-4865		106
291	Effect of sonication time on the thermal stability, moisture absorption, and biodegradation of water hyacinth (Eichhornia crassipes) nanocellulose-filled bengkuang (Pachyrhizus erosus) starch biocomposites. *Journal of Materials Research and Technology*, **2019**, 8, 6223-6231	5.5	98
290	Micro- and Nanocellulose in Polymer Composite Materials: A Review. *Polymers*, **2021**, 13,	4.5	94
289	Sugar palm (Arenga pinnata [Wurmb.] Merr) starch films containing sugar palm nanofibrillated cellulose as reinforcement: Water barrier properties. *Polymer Composites*, **2020**, 41, 459-467	3	93
288	A Review on Natural Fiber Reinforced Polymer Composite for Bullet Proof and Ballistic Applications. *Polymers*, **2021**, 13,	4.5	92
287	Nanocellulose Reinforced Thermoplastic Starch (TPS), Polylactic Acid (PLA), and Polybutylene Succinate (PBS) for Food Packaging Applications. *Frontiers in Chemistry*, **2020**, 8, 213	5	89
286	Mechanical properties of soil buried kenaf fibre reinforced thermoplastic polyurethane composites. *Materials & Design*, **2013**, 50, 467-470		89
285	Design and fabrication of natural woven fabric reinforced epoxy composite for household telephone stand. *Materials & Design*, **2005**, 26, 65-71		89
284	Cassava/sugar palm fiber reinforced cassava starch hybrid composites: Physical, thermal and structural properties. *International Journal of Biological Macromolecules*, **2017**, 101, 75-83	7.9	88
283	Mechanical performance of woven kenaf-Kevlar hybrid composites. *Journal of Reinforced Plastics and Composites*, **2014**, 33, 2242-2254	2.9	88
282	Mechanical, thermal and morphological properties of durian skin fibre reinforced PLA biocomposites. *Materials & Design*, **2014**, 59, 279-286		88
281	Potential of Natural Fiber Reinforced Polymer Composites in Sandwich Structures: A Review on Its Mechanical Properties. *Polymers*, **2021**, 13,	4.5	88

280	Thermo-mechanical behaviors of thermoplastic starch derived from sugar palm tree (Arenga pinnata). *Carbohydrate Polymers*, **2013**, 92, 1711-6	10.3	87
279	Physical and thermal properties of treated sugar palm/glass fibre reinforced thermoplastic polyurethane hybrid composites. *Journal of Materials Research and Technology*, **2019**, 8, 3726-3732	5.5	86
278	Effect of hydrolysis time on the morphological, physical, chemical, and thermal behavior of sugar palm nanocrystalline cellulose (Arenga pinnata (Wurmb.) Merr). *Textile Reseach Journal*, **2021**, 91, 152-167	1.7	86
277	Thermal properties of treated sugar palm yarn/glass fiber reinforced unsaturated polyester hybrid composites. *Journal of Materials Research and Technology*, **2020**, 9, 1606-1618	5.5	84
276	Fabrication, Functionalization, and Application of Carbon Nanotube-Reinforced Polymer Composite: An Overview. *Polymers*, **2021**, 13,	4.5	83
275	Hybrid reinforced thermoset polymer composite in energy absorption tube application: A review. *Defence Technology*, **2018**, 14, 291-305	3	81
274	Effect of cogon grass fibre on the thermal, mechanical and biodegradation properties of thermoplastic cassava starch biocomposite. *International Journal of Biological Macromolecules*, **2020**, 146, 746-755	7.9	80
273	Woods and composites cantilever beam: A comprehensive review of experimental and numerical creep methodologies. *Journal of Materials Research and Technology*, **2020**, 9, 6759-6776	5.5	77
272	Conceptual design of kenaf fiber polymer composite automotive parking brake lever using integrated TRIZ–Morphological Chart–Analytic Hierarchy Process method. *Materials & Design*, **2014**, 54, 473-482		74
271	Thermal Properties of Woven Kenaf/Carbon Fibre-Reinforced Epoxy Hybrid Composite Panels. *International Journal of Polymer Science*, **2019**, 2019, 1-8	2.4	74
270	Characteristics of thermoplastic sugar palm Starch/Agar blend: Thermal, tensile, and physical properties. *International Journal of Biological Macromolecules*, **2016**, 89, 575-81	7.9	73
269	Thermal, Biodegradability and Water Barrier Properties of Bio-Nanocomposites Based on Plasticised Sugar Palm Starch and Nanofibrillated Celluloses from Sugar Palm Fibres. *Journal of Biobased Materials and Bioenergy*, **2020**, 14, 234-248	1.4	71
268	The Preparation Methods and Processing of Natural Fibre Bio-polymer Composites. *Current Organic Synthesis*, **2019**, 16, 1068-1070	1.9	68
267	Polylactic Acid (PLA) Biocomposite: Processing, Additive Manufacturing and Advanced Applications. *Polymers*, **2021**, 13,	4.5	68
266	Effect of polybutylene terephthalate (PBT) on impact property improvement of hybrid kenaf/glass epoxy composite. *Materials Letters*, **2012**, 67, 5-7	3.3	64
265	Shrinkages and warpage in the processability of wood-filled polypropylene composite thin-walled parts formed by injection molding. *Materials & Design*, **2013**, 52, 1018-1026		64
264	Biopolymers and Biocomposites: Chemistry and Technology. *Current Analytical Chemistry*, **2020**, 16, 500-503	1.7	64
263	Quasi-static penetration and ballistic properties of kenaf–aramid hybrid composites. *Materials & Design*, **2014**, 63, 775-782		63

262	Mechanical properties of sugar palm yarn/woven glass fiber reinforced unsaturated polyester composites: effect of fiber loadings and alkaline treatment. *Polimery*, **2019**, 64, 665-675	3.4	63
261	Effect of sago starch and plasticizer content on the properties of thermoplastic films: mechanical testing and cyclic soaking-drying. *Polimery*, **2019**, 64, 422-431	3.4	63
260	Antimicrobial Activities of Starch-Based Biopolymers and Biocomposites Incorporated with Plant Essential Oils: A Review. *Polymers*, **2020**, 12,	4.5	61
259	Effect of duration of sonication during gelatinization on properties of tapioca starch water hyacinth fiber biocomposite. *International Journal of Biological Macromolecules*, **2018**, 108, 167-176	7.9	61
258	Sugar Palm Starch-Based Composites for Packaging Applications **2018**, 125-147		60
257	Conceptual design of a polymer composite automotive bumper energy absorber. *Materials & Design* , **2008**, 29, 1447-1452		57
256	Effect of ultrasonication duration of polyvinyl alcohol (PVA) gel on characterizations of PVA film. *Journal of Materials Research and Technology*, **2020**, 9, 2477-2486	5.5	56
255	A Comprehensive Review on Advanced Sustainable Woven Natural Fibre Polymer Composites. *Polymers*, **2021**, 13,	4.5	56
254	Highly transparent and antimicrobial PVA based bionanocomposites reinforced by ginger nanofiber. *Polymer Testing*, **2020**, 81, 106186	4.5	55
253	Degradation and physical properties of sugar palm starch/sugar palm nanofibrillated cellulose bionanocomposite. *Polimery*, **2019**, 64, 680-689	3.4	54
252	The effect of water immersion and fibre content on properties of corn husk fibres reinforced thermoset polyester composite. *Polymer Testing*, **2020**, 91, 106751	4.5	54
251	Characterization Study of Empty Fruit Bunch (EFB) Fibers Reinforcement in Poly(Butylene) Succinate (PBS)/Starch/Glycerol Composite Sheet. *Polymers*, **2020**, 12,	4.5	53
250	The effects of chemical treatment on the structural and thermal, physical, and mechanical and morphological properties of roselle fiber-reinforced vinyl ester composites. *Polymer Composites*, **2018**, 39, 274-287	3	52
249	Sugar palm nanocrystalline cellulose reinforced sugar palm starch composite: Degradation and water-barrier properties. *IOP Conference Series: Materials Science and Engineering*, **2018**, 368, 012006	0.4	50
248	Mechanical Properties of Longitudinal Basalt/Woven-Glass-Fiber-reinforced Unsaturated Polyester-Resin Hybrid Composites. *Polymers*, **2020**, 12,	4.5	50
247	Integration of TRIZ, morphological chart and ANP method for development of FRP composite portable fire extinguisher. *Polymer Composites*, **2020**, 41, 2917-2932	3	49
246	Thermal degradation of banana pseudo-stem filled unplasticized polyvinyl chloride (UPVC) composites. *Materials & Design*, **2009**, 30, 557-562		49
245	Thermal properties of sugar palm/glass fiber reinforced thermoplastic polyurethane hybrid composites. *Composite Structures*, **2018**, 202, 954-958	5.3	48

244	A prototype knowledge-based system for the material selection of polymeric-based composites for automotive components. *Composites Part A: Applied Science and Manufacturing*, **1998**, 29, 731-742	8.4	48
243	A note on the conceptual design of polymeric composite automotive bumper system. *Journal of Materials Processing Technology*, **2005**, 159, 145-151	5.3	48
242	Water absorption and water solubility properties of sago starch biopolymer composite films filled with sugar palm particles. *Polimery*, **2019**, 64, 596-604	3.4	48
241	Potential Application of Green Composites for Cross Arm Component in Transmission Tower: A Brief Review. *International Journal of Polymer Science*, **2020**, 2020, 1-15	2.4	47
240	Conceptual design of creep testing rig for full-scale cross arm using TRIZ-Morphological chart-analytic network process technique. *Journal of Materials Research and Technology*, **2019**, 8, 5647-5658	5.5	45
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237	Conceptual design of automobile engine rubber mounting composite using TRIZ-Morphological chart-analytic network process technique. *Defence Technology*, **2018**, 14, 268-277	3	41
236	Measurement of ballistic impact properties of woven kenaf□aramid hybrid composites. *Measurement: Journal of the International Measurement Confederation*, **2016**, 77, 335-343	4.6	40
235	Design and fabrication of low cost filament winding machine. *Materials & Design*, **2007**, 28, 234-239		39
234	The Effects of Silver Nanoparticles Compositions on the Mechanical, Physiochemical, Antibacterial, and Morphology Properties of Sugar Palm Starch Biocomposites for Antibacterial Coating. *Polymers* , **2020**, 12,	4.5	39
233	A Review on Mechanical Performance of Hybrid Natural Fiber Polymer Composites for Structural Applications. *Polymers*, **2021**, 13,	4.5	39
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231	Polymer Composites Filled with Metal Derivatives: A Review of Flame Retardants. *Polymers*, **2021**, 13,	4.5	38
230	Mechanical Properties of Sugar Palm Fibre Reinforced High Impact Polystyrene Composites. *Procedia Chemistry*, **2012**, 4, 101-106		37
229	Physical and mechanical properties of polyvinylidene fluoride - Short sugar palm fiber nanocomposites. *Journal of Cleaner Production*, **2019**, 235, 473-482	10.3	35
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226	Physical, thermal, morphological, and tensile properties of cornstarch-based films as affected by different plasticizers. *International Journal of Food Properties*, **2019**, 22, 925-941	3	34
225	The Effects of Unbleached and Bleached Nanocellulose on the Thermal and Flammability of Polypropylene-Reinforced Kenaf Core Hybrid Polymer Bionanocomposites. *Polymers*, **2020**, 13,	4.5	34
224	Natural Fiber Reinforced Composite Material for Product Design: A Short Review. *Polymers*, **2021**, 13,	4.5	34
223	Moisture Absorption and Thickness Swelling Behaviour of Sugar Palm Fibre Reinforced Thermoplastic Polyurethane. *Procedia Engineering*, **2017**, 184, 581-586		33
222	A New Approach to Use Arenga Pinnata as Sustainable Biopolymer: Effects of Plasticizers on Physical Properties. *Procedia Chemistry*, **2012**, 4, 254-259		33
221	Preparation and characterization of cornhusk/sugar palm fiber reinforced Cornstarch-based hybrid composites. *Journal of Materials Research and Technology*, **2020**, 9, 200-211	5.5	33
220	Effects of Fabric Counts and Weave Designs on the Properties of Laminated Woven Kenaf/Carbon Fibre Reinforced Epoxy Hybrid Composites. *Polymers*, **2018**, 10,	4.5	33
219	Thermogravimetric Analysis Properties of Cellulosic Natural Fiber Polymer Composites: A Review on Influence of Chemical Treatments. *Polymers*, **2021**, 13,	4.5	33
218	The influence of equi-biaxially fabric prestressing on the flexural performance of woven E-glass/polyester-reinforced composites. *Journal of Composite Materials*, **2016**, 50, 3385-3393	2.7	32
217	Natural Fiber-Reinforced Polylactic Acid, Polylactic Acid Blends and Their Composites for Advanced Applications.. *Polymers*, **2022**, 14,	4.5	32
216	Physical Properties of Thermoplastic Starch Derived from Natural Resources and Its Blends: A Review. *Polymers*, **2021**, 13,	4.5	32
215	Potential of using multiscale corn husk fiber as reinforcing filler in cornstarch-based biocomposites. *International Journal of Biological Macromolecules*, **2019**, 139, 596-604	7.9	31
214	Effects of kenaf contents and fiber orientation on physical, mechanical, and morphological properties of hybrid laminated composites for vehicle spall liners. *Polymer Composites*, **2015**, 36, 1469-1476	2	31
213	Recent Trends and Developments in Conducting Polymer Nanocomposites for Multifunctional Applications. *Polymers*, **2021**, 13,	4.5	31
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211	Effect of equi-biaxially fabric prestressing on the tensile performance of woven E-glass/polyester reinforced composites. *Journal of Reinforced Plastics and Composites*, **2016**, 35, 1093-1103	2.9	29
210	Effect of fiber orientation and fiber loading on the mechanical and thermal properties of sugar palm yarn fiber reinforced unsaturated polyester resin composites. *Polimery*, **2020**, 65, 115-124	3.4	29
209	Delamination and Manufacturing Defects in Natural Fiber-Reinforced Hybrid Composite: A Review. *Polymers*, **2021**, 13,	4.5	29

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207	Treatments of Natural Fibre as Reinforcement in Polymer Composites-Short Review. *Functional Composites and Structures*,	3.5	28
206	Electrical properties of sugar palm nanocrystalline cellulose, reinforced sugar palm starch nanocomposites. *Polimery*, **2020**, 65, 363-370	3.4	27
205	Improvement of Biocomposite Properties Based Tapioca Starch and Sugarcane Bagasse Cellulose Nanofibers. *Key Engineering Materials*, **2020**, 849, 96-101	0.4	27
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201	Antimicrobial activity, physical, mechanical and barrier properties of sugar palm based nanocellulose/starch biocomposite films incorporated with cinnamon essential oil. *Journal of Materials Research and Technology*, **2021**, 11, 144-157	5.5	25
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199	Critical Determinants of Household Electricity Consumption in a Rapidly Growing City. *Sustainability* , **2021**, 13, 4441	3.6	24
198	Physico-chemical and Thermal Properties of Starch Derived from Sugar Palm Tree (Arenga pinnata). *Asian Journal of Chemistry*, **2014**, 26, 955-959	0.4	23
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196	Recent developments in sustainable arrowroot (Maranta arundinacea Linn) starch biopolymers, fibres, biopolymer composites and their potential industrial applications: A review. *Journal of Materials Research and Technology*, **2021**, 13, 1191-1219	5.5	23
195	Design and Fabrication of a Shoe Shelf From Kenaf Fiber Reinforced Unsaturated Polyester Composites **2019**, 315-332		22
194	Characterization studies of biopolymeric matrix and cellulose fibres based composites related to functionalized fibre-matrix interface **2020**, 29-93		22
193	Chemical Composition and FT-IR Spectra of Sugar Palm (Arenga pinnata) Fibers Obtained from Different Heights. *Journal of Natural Fibers*, **2013**, 10, 83-97	1.8	22
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191	Creep test rig for cantilever beam: Fundamentals, prospects and present views. *Journal of Mechanical Engineering and Sciences*, **2020**, 14, 6869-6887	2	22

190	Characteristic of composite bioplastics from tapioca starch and sugarcane bagasse fiber: Effect of time duration of ultrasonication (Bath-Type). *Materials Today: Proceedings*, **2021**, 46, 1626-1630	1.4	22
189	Natural-Fiber-Reinforced Chitosan, Chitosan Blends and Their Nanocomposites for Various Advanced Applications.. *Polymers*, **2022**, 14,	4.5	22
188	Effects of the liquid natural rubber (LNR) on mechanical properties and microstructure of epoxy/silica/kenaf hybrid composite for potential automotive applications. *Journal of Materials Research and Technology*, **2021**, 12, 1026-1038	5.5	21
187	Effect of fiber content and their hybridization on bending and torsional strength of hybrid epoxy composites reinforced with carbon and sugar palm fibers. *Polimery*, **2021**, 66, 36-43	3.4	21
186	Pyrolysis of polypropylene plastic waste into carbonaceous char: Priority of plastic waste management amidst COVID-19 pandemic. *Science of the Total Environment*, **2022**, 803, 149911	10.2	21
185	Preparation and Characterization of Cassava Starch/Peel Composite Film. *Polymer Composites*, **2018** , 39, 1704-1715	3	20
184	Investigation on Bending Strength and Stiffness of Sugar Palm Fibre from Different Parts Reinforced Unsaturated Polyester Composites. *Key Engineering Materials*, **2011**, 471-472, 502-506	0.4	20
183	Hybridization of MMT/Lignocellulosic Fiber Reinforced Polymer Nanocomposites for Structural Applications: A Review. *Coatings*, **2021**, 11, 1355	2.9	20
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175	Effect of Nanofillers on Tribological Properties of Polymer Nanocomposites: A Review on Recent Development. *Polymers*, **2021**, 13,	4.5	19
174	Greener Pretreatment Approaches for the Valorisation of Natural Fibre Biomass into Bioproducts. *Polymers*, **2021**, 13,	4.5	19
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169	Effect of winding orientation on energy absorption and failure modes of filament wound kenaf/glass fibre reinforced epoxy hybrid composite tubes under intermediate-velocity impact (IVI) load. *Journal of Materials Research and Technology*, **2021**, 10, 1-14	5.5	18
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167	Processing and Characterisation of Banana Leaf Fibre Reinforced Thermoplastic Cassava Starch Composites. *Polymers*, **2021**, 13,	4.5	17
166	Water Absorption Behaviour and Impact Strength of Kenaf-Kevlar Reinforced Epoxy Hybrid Composites. *Advanced Composites Letters*, **2016**, 25, 096369351602500	1.2	17
165	Development and Characterization of Physical Modified Pearl Millet Starch-Based Films. *Foods*, **2021**, 10,	4.9	17
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163	Effect of plasticizers on physical, thermal, and tensile properties of thermoplastic films based on Dioscorea hispida starch. *International Journal of Biological Macromolecules*, **2021**, 185, 219-228	7.9	17
162	Optimization of the Mechanical Properties of Abaca Fibre-Reinforced High Impact Polystyrene (HIPS) Composites Using Box-Behnken Design of Experiments. *Polymers and Polymer Composites*, **2011**, 19, 697-710	0.8	16
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159	Nanocellulose/Starch Biopolymer Nanocomposites: Processing, Manufacturing, and Applications **2020**, 65-88		16
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147	Critical Review of Natural Fiber Reinforced Hybrid Composites: Processing, Properties, Applications and Cost. *Polymers*, **2021**, 13,	4.5	12
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