Natural-based plasticizers and biopolymer films: A review

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Citation Report

#	Article	IF	CITATIONS
1	Effects of Various Plasticizers on the Moisture Sorption and Mechanical Properties of Gelatin-Chitosan Composite Films. Advanced Materials Research, 2011, 295-297, 1202-1205.	0.3	1
2	Ethylcellulose-Based Matrix-Type Microspheres: Influence of Plasticizer RATIO as Pore-Forming Agent. AAPS PharmSciTech, 2011, 12, 1127-1135.	3.3	17
3	Polymer Composites for Bone Reconstruction. , 0, , .		7
4	PLASTICIZER TYPES., 2012,, 7-83.		2
5	Preparation of Hybrid Hydrogel Containing Ag Nanoparticles by a Green in Situ Reduction Method. Langmuir, 2012, 28, 11188-11194.	3.5	53
6	Preparation of gelatin/polyoxypropylene grafted copolymers by isocyanate promoted "grafting onto― reaction. Polymer, 2012, 53, 4595-4603.	3.8	5
7	Synthesis of renewable plasticizer alcohols by formal anti-Markovnikov hydration of terminal branched chain alkenes via a borane-free oxidation/reduction sequence. Green Chemistry, 2012, 14, 2450.	9.0	20
8	lonic liquids as foaming agents of semi-crystalline natural-based polymers. Green Chemistry, 2012, 14, 1949.	9.0	21
9	Effect of Molecular Sizes, Sources of Chitosan and Plasticizer Types on Properties of Carboxymethyl Chitosan Films. Advanced Materials Research, 2012, 506, 611-614.	0.3	8
10	Design and synthesis of plasticizing fillers based on zirconium phosphonates for glycerol-free composite starch films. Journal of Materials Chemistry, 2012, 22, 5098.	6.7	16
11	Protein-Based Edible Films: Characteristics and Improvement of Properties. , 0, , .		51
12	PLASTICIZING EFFECT OF CHOLINE CHLORIDE/UREA EUTECTIC-BASED IONIC LIQUID ON PHYSICOCHEMICAL PROPERTIES OF AGAROSE FILMS. BioResources, 2012, 7, .	1.0	34
13	The Effect of Concentration and Type of Plasticizer on the Mechanical Properties of Cellulose Acetate Butyrate Organic-Inorganic Hybrids., 0,,.		14
14	Plasticized methylcellulose coating for reducing oil uptake in potato chips. Journal of the Science of Food and Agriculture, 2012, 92, 1346-1353.	3.5	29
15	Processing and characterization of starch-based materials from pehuen seeds (Araucaria araucana) Tj ETQq0 0 0	rgBT /Ove	erlock 10 Tf 50
16	Microsphere valorization of forestry derived hydrolysates. European Polymer Journal, 2012, 48, 372-383.	5.4	3
17	The effect of citrate ester plasticizers on the thermal and mechanical properties of poly(<scp>DL</scp> â€actide). Journal of Applied Polymer Science, 2013, 127, 1997-2003.	2.6	39
18	Epoxidation of modified natural plasticizer obtained from rice fatty acids and application on polyvinylchloride films. Journal of Applied Polymer Science, 2013, 127, 3543-3549.	2.6	42

#	ARTICLE	IF	CITATIONS
19	Spray drying thermoplastic starch formulations: Need for processing aids and plasticizers?. European Polymer Journal, 2013, 49, 1861-1870.	5.4	15
20	Evaluation of Fishmeal as Starting Material for Producing Biodegradable Protein-Based Thermoplastic Polymers. Waste and Biomass Valorization, 2013, 4, 147-159.	3.4	6
21	Effect of high molecular weight plasticizers on the gelatinization of starch under static and shear conditions. Carbohydrate Polymers, 2013, 92, 1799-1808.	10.2	28
22	Natural weathering studies of biobased thermoplastic starch from agricultural waste/polypropylene blends. Journal of Applied Polymer Science, 2013, 129, 3237-3246.	2.6	16
23	Influence of heating, protein and glycerol concentrations of film-forming solution on the film properties of Argentine anchovy (Engraulis anchoita) protein isolate. Journal of Food Engineering, 2013, 116, 666-673.	5.2	52
24	Effect of Carboxymethylcellulose on Plasticized Polylactide. Advanced Materials Research, 2013, 658, 19-24.	0.3	0
25	Progress in bio-based plastics and plasticizing modifications. Journal of Materials Chemistry A, 2013, 1, 13379.	10.3	594
26	High molecular weight plasticizers in thermoplastic starch/polyethylene blends. Journal of Materials Science, 2013, 48, 1799-1811.	3.7	30
27	Physicochemical and mechanical properties of extruded laminates from native and oxidized banana starch during storage. LWT - Food Science and Technology, 2013, 54, 447-455.	5.2	37
28	Characterization of starch films containing starch nanoparticles. Carbohydrate Polymers, 2013, 96, 593-601.	10.2	108
29	Effects of excipients on the tensile strength, surface properties and free volume of Klucel \hat{A}^{\otimes} free films of pharmaceutical importance. Radiation Physics and Chemistry, 2013, 89, 57-63.	2.8	14
30	Plasticization effect of triacetin on structure and properties of starch ester film. Carbohydrate Polymers, 2013, 94, 874-881.	10.2	46
31	Effects of glycerol, sorbitol, xylitol and fructose plasticisers on mechanical and moisture barrier properties of pullulan–alginate–carboxymethylcellulose blend films. International Journal of Food Science and Technology, 2013, 48, 870-878.	2.7	60
32	Degradation studies during water absorption, aerobic biodegradation, and soil burial of biobased thermoplastic starch from agricultural waste/polypropylene blends. Journal of Applied Polymer Science, 2013, 129, 3656-3664.	2.6	38
33	Understanding the role of plasticisers in spray-dried starch. Carbohydrate Polymers, 2013, 97, 571-580.	10.2	25
34	Influence of glycerol on morphology and properties of polylactide/montmorillonite nanocomposites. Polymer Bulletin, 2013, 70, 1863-1873.	3.3	6
35	Characterization and biodegradability of agricultural residue-filled polyester ecocomposites. Polymer Bulletin, 2013, 70, 1613-1629.	3.3	7
36	Design and Characterization of Controlled-Release Edible Packaging Films Prepared with Synergistic Whey-Protein Polysaccharide Complexes. Journal of Agricultural and Food Chemistry, 2013, 61, 5824-5833.	5.2	35

3

#	Article	IF	Citations
37	Synthesis and self-assembly of amphiphilic polymers based on polyoxazoline and vegetable oil derivatives. Polymer Chemistry, 2013, 4, 1445-1458.	3.9	24
39	Effect of plasticizer content on the functional properties of extruded gelatin-based composite films. Food Hydrocolloids, 2013, 31, 264-269.	10.7	72
40	Physical and chemical methods used to enhance the structure and mechanical properties of protein films: A review. Journal of Food Engineering, 2013, 114, 292-302.	5 . 2	284
41	Effect of long-term and short-term dynamic mechanical evaluation of networks based on urethane and soybean oil. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 17, 317-326.	3.1	10
42	Aminoalcohol functionalized zirconium phosphate as versatile filler for starch-based composite membranes. Carbohydrate Polymers, 2013, 97, 210-216.	10.2	8
43	Enhancing the Release of the Antioxidant Tocopherol from Polypropylene Films by Incorporating the Natural Plasticizers Lecithin, Olive Oil, or Sunflower Oil. Journal of Agricultural and Food Chemistry, 2013, 61, 11848-11857.	5.2	22
44	Modifying Poly(L-Lactic Acid) Matrix Film Properties with High Loaded Poly(Ethylene Glycol). Key Engineering Materials, 0, 545, 57-62.	0.4	16
45	Properties of Cast Films Made from Different Ratios of Whey Protein Isolate, Hydrolysed Whey Protein Isolate and Glycerol. Materials, 2013, 6, 3254-3269.	2.9	58
46	Esterification of Condensed Tannins and Their Impact on the Properties of Poly(Lactic Acid). Polymers, 2013, 5, 344-360.	4.5	50
47	Bionanocomposites of Cassava Starch and Synthetic Clay. Journal of Carbohydrate Chemistry, 2013, 32, 483-501.	1.1	7
48	Long-Term Physical Stability of Plasticized Hemicellulose Films. BioResources, 2013, 9, .	1.0	4
49	Development and Characterization of Biodegradable Composite Films Based on Gelatin Derived from Beef, Pork and Fish Sources. Foods, 2013, 2, 1-17.	4.3	31
50	Properties and Antioxidant Action of Actives Cassava Starch Films Incorporated with Green Tea and Palm Oil Extracts. PLoS ONE, 2014, 9, e105199.	2.5	65
51	Biodegradable Composite Films based on \hat{I}^2 -carrageenan Reinforced by Cellulose Nanocrystal from Kenaf Fibers. BioResources, 2014, 10, .	1.0	27
52	Synthesis and application of natural polymeric plasticizer obtained through polyesterification of rice fatty acid. Materials Research, 2014, 17, 386-391.	1.3	32
53	Influence of bloom number and plastifiers on gelatin matrices produced for enzyme immobilization. Brazilian Journal of Chemical Engineering, 2014, 31, 95-108.	1.3	14
54	Feasibility of using mixtures of silicone elastomers and silicone oils to model the mechanical behaviour of biological tissues. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 730-734.	1.8	11
55	Casein Films: The Effects of Formulation, Environmental Conditions and the Addition of Citric Pectin on the Structure and Mechanical Properties. Polymers, 2014, 6, 2018-2036.	4.5	70

#	ARTICLE	IF	CITATIONS
56	CHAPTER 5. Plant-oil-based Polymeric Materials and their Applications. RSC Green Chemistry, 2014, , 93-126.	0.1	1
57	Lipidic polyols using thiolâ€ene/yne strategy for crosslinked polyurethanes. Journal of Polymer Science Part A, 2014, 52, 1597-1606.	2.3	23
58	Technofunctional Properties of Films Made From Ethylene Vinyl Acetate/Whey Protein Isolate Compounds. Packaging Technology and Science, 2014, 27, 521-533.	2.8	20
59	Carbon Recycling for Renewable Materials and Energy Supply. Journal of Industrial Ecology, 2014, 18, 327-340.	5.5	34
60	Films from resistant starch-pectin dispersions intended for colonic drug delivery. Carbohydrate Polymers, 2014, 99, 140-149.	10.2	94
61	Hydrogel-gauze dressing for moderate-to-severe atopic dermatitis: development and efficacy study on atopic dermatitis-like skin lesions in NC/Nga mice. Drug Development and Industrial Pharmacy, 2014, 40, 1538-1546.	2.0	5
62	Structure–moisture sorption relation in chitosan thin films. Materials Letters, 2014, 128, 125-127.	2.6	16
63	Nanofibrillated cellulose reinforced acetylated arabinoxylan films. Composites Science and Technology, 2014, 98, 72-78.	7.8	28
64	Applying the Principles of Green Chemistry to Polymer Production Technology. Macromolecular Reaction Engineering, 2014, 8, 7-28.	1.5	132
65	Facile fabrication of chitosan active film with xylan via direct immersion. Cellulose, 2014, 21, 1873-1883.	4.9	53
66	"Green―films from renewable resources: Properties of epoxidized soybean oil plasticized ethyl cellulose films. Carbohydrate Polymers, 2014, 103, 198-206.	10.2	87
67	Characterization of edible gum cordia film: Effects of plasticizers. LWT - Food Science and Technology, 2014, 55, 163-169.	5.2	75
68	Benzyl ester of dehydrated castor oil fatty acid as plasticizer for poly(vinyl chloride). Polymer International, 2014, 63, 1456-1464.	3.1	23
69	Synthesis and properties of canola protein-based superabsorbent hydrogels. European Polymer Journal, 2014, 54, 172-180.	5.4	71
70	Lipase immobilisation in matrix comprised of gelatin of different bloom numbers with the addition of hydrophilic plasticisers. Canadian Journal of Chemical Engineering, 2014, 92, 989-999.	1.7	3
71	Effect of the incorporation of surfactants on the physical properties of corn starch films. Food Hydrocolloids, 2014, 38, 66-75.	10.7	90
72	Review: bio-based films from zein, keratin, pea, and rapeseed protein feedstocks. Journal of Materials Science, 2014, 49, 1915-1930.	3.7	83
73	Modifying biodegradable plastics with additives based on condensed tannin esters. Journal of Applied Polymer Science, 2015, 132, .	2.6	16

#	Article	IF	CITATIONS
74	Physicochemical characterization of plasma-treated sodium caseinate film. Food Research International, 2014, 66, 438-444.	6.2	84
7 5	Evaluation performance of multiple plasticizer systems on the physicomechanical, crystallinity and thermogravimetry of polyvinyl chloride. Journal of Polymer Engineering, 2014, 34, 521-529.	1.4	5
76	Horse chestnut (Aesculus hippocastanum L.) starch: Basic physico-chemical characteristics and use as thermoplastic material. Carbohydrate Polymers, 2014, 112, 677-685.	10.2	36
77	The use of hotâ€melt extruded corn starch matrices as drug carrier systems: A thermophysical characterization. Starch/Staerke, 2014, 66, 923-933.	2.1	2
78	Triple-layered PLGA/nanoapatite/lauric acid graded composite membrane for periodontal guided bone regeneration. Materials Science and Engineering C, 2014, 43, 253-263.	7.3	28
79	Sunflower-oil biodiesel-oligoesters/polylactide blends: Plasticizing effect and ageing. Polymer Testing, 2014, 39, 23-29.	4.8	31
80	Regenerated cellulose fibre reinforced casein films: Effect of plasticizer and fibres on the film properties. Macromolecular Research, 2014, 22, 701-709.	2.4	20
81	Preparation, thermal characterization, and DFT study of the bacterial cellulose. Journal of Thermal Analysis and Calorimetry, 2014, 118, 205-215.	3.6	15
82	Structural changes and triacetin migration of starch acetate film contacting with distilled water as food simulant. Carbohydrate Polymers, 2014, 104, 1-7.	10.2	36
83	The use of biomass for packaging films and coatings. , 2014, , 819-874.		27
84	Diffusion Behavior of Water at Infinite Dilution in Hydroxypropyl Xylan Films with Sorbitol and Cellulose Nanocrystals. ACS Sustainable Chemistry and Engineering, 2014, 2, 1305-1311.	6.7	16
85	Epoxidized rice bran oil (ERBO) as a plasticizer for poly(vinyl chloride) (PVC). Iranian Polymer Journal (English Edition), 2014, 23, 599-608.	2.4	47
86	Thermal Transitions and Structural Relaxations in Proteinâ€ <scp>B</scp> ased Thermoplastics. Macromolecular Materials and Engineering, 2014, 299, 524-539.	3.6	40
87	Biodegradable films produced from the bacterial polysaccharide FucoPol. International Journal of Biological Macromolecules, 2014, 71, 111-116.	7.5	46
88	Non-microbial indicators for monitoring virus removal by ultrafiltration membranes. Journal of Membrane Science, 2014, 454, 193-199.	8.2	17
89	Development and characterization of mucoadhesive chitosan films for ophthalmic delivery of cyclosporine A. International Journal of Pharmaceutics, 2014, 472, 10-19.	5.2	62
90	Natural additives and agricultural wastes in biopolymer formulations for food packaging. Frontiers in Chemistry, 2014, 2, 6.	3.6	128
91	Improvement of processing and mechanical properties of polyetherimide by antiplasticization with resorcinol bis(diphenyl phosphate). Journal of Applied Polymer Science, 2014, 131, .	2.6	4

#	Article	IF	Citations
92	Plasticizer migration in bloodmealâ€based thermoplastics. Journal of Applied Polymer Science, 2014, 131, .	2.6	7
93	Crystalline properties of polylactide acid-filled aragonite CaCO3 derived from Polymesoda bengalensis (lokan) shell. Materials Research Innovations, 2014, 18, S6-95-S6-99.	2.3	1
94	Heat resistance of new biobased polymeric materials, focusing on starch, cellulose, <scp>PLA</scp> , and <scp>PHA</scp> . Journal of Applied Polymer Science, 2015, 132, .	2.6	63
95	Bio-Based and Bio-Inspired Cellular Materials. , 2015, , 1-37.		O
96	The Effect of Glycerol/Water and Sorbitol/Water on the Plasticization of Hydroxyethylacryl Chitosan/Sodium Alginate Films. MATEC Web of Conferences, 2015, 30, 02006.	0.2	5
97	Analysis of the Suitability of Poly(lactic acid) in Rotational Molding Process. Advances in Polymer Technology, 2015, 34, .	1.7	18
98	Influence of plasticizer with different functional groups on thermoplastic starch. Journal of Applied Polymer Science, 2015, 132, .	2.6	37
99	Preparation and characterisation of films from xyloseâ€glycosylated peanut protein isolate powder. International Journal of Food Science and Technology, 2015, 50, 1538-1544.	2.7	13
101	Changes in hydrogen bonding in protein plasticized with triethylene glycol. Journal of Applied Polymer Science, 2015, 132, .	2.6	5
102	Effect of Oligo-Hydroxyalkanoates on Poly(3-Hydroxybutyrate- <i>co</i> -4-Hydroxybutyrate)-Based Systems. Macromolecular Materials and Engineering, 2015, 300, 661-666.	3.6	10
103	Biodegradable antimicrobial films based on poly(lactic acid) matrices and active azo compounds. Journal of Applied Polymer Science, 2015, 132, .	2.6	29
104	Biotechnological Generation of Value Added Products from Spent Pulping Liquors: Assessing the Potential of Extremophiles. Journal of Bioprocessing & Biotechniques, 2015, 05, .	0.2	2
105	Investigation of Film with \hat{I}^2 -Galactosidase Designed for Stabilization and Handling in Dry Configuration. Molecules, 2015, 20, 17180-17193.	3.8	4
106	Effect of Plasticizer Type and Concentration on Tensile, Thermal and Barrier Properties of Biodegradable Films Based on Sugar Palm (Arenga pinnata) Starch. Polymers, 2015, 7, 1106-1124.	4.5	335
107	Biodegradable Films Based on Gelatin and Montmorillonite Produced by Spreading. International Journal of Polymer Science, 2015, 2015, 1-9.	2.7	20
108	Influence of plasticizer and biocide on the functional properties of gelatin-based adhesives used in painting consolidation. Journal of Adhesion Science and Technology, 2015, 29, 1774-1795.	2.6	6
109	Suberin fatty acids isolated from outer birch bark improve moisture barrier properties of cellulose ether films intended for tablet coatings. International Journal of Pharmaceutics, 2015, 489, 91-99.	5.2	16
110	Influence of Cross-Linking on the Physical Properties and Cytotoxicity of Polyhydroxyalkanoate (PHA) Scaffolds for Tissue Engineering. ACS Biomaterials Science and Engineering, 2015, 1, 567-576.	5.2	39

#	Article	IF	CITATIONS
111	Fish Gelatin: Characteristics, Functional Properties, Applications and Future Potentials. Food Engineering Reviews, 2015, 7, 33-44.	5.9	118
112	Development of blend films from soy meal protein and crude glycerol-based waterborne polyurethane. Industrial Crops and Products, 2015, 67, 11-17.	5.2	28
113	Formulation and characterization of nanolaminated starch based film. LWT - Food Science and Technology, 2015, 61, 407-413.	5.2	16
114	Pasting properties of heat–moisture treated canna starches using different plasticizers during treatment. Carbohydrate Polymers, 2015, 122, 152-159.	10.2	13
115	The influence of different plasticisers and fatty acids on functional properties of basil seed gum edible film. International Journal of Food Science and Technology, 2015, 50, 1137-1143.	2.7	41
116	Adipate and Citrate Esters as Plasticizers for Poly(Lactic Acid)/Thermoplastic Starch Sheets. Journal of Polymers and the Environment, 2015, 23, 54-61.	5.0	40
117	Synthesis and characterization of glyceryl monooleate-based polyester. Korean Journal of Chemical Engineering, 2015, 32, 547-551.	2.7	15
118	Esterâ€amide based on ricinoleic acid as a novel primary plasticizer for poly(vinyl chloride). Journal of Applied Polymer Science, 2015, 132, .	2.6	12
119	Crosslinking of gelatin membranes with ferulic acid or glutaraldehyde: Relationship between gas permeability and renaturation level of gelatin triple helices. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 280-287.	2.1	11
120	Evaluation of the influences of process parameters while selective laser sintering PMMA powders. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 603-613.	2.1	28
121	Ageing of chitosan films: Effect of storage time on structure and optical, barrier and mechanical properties. European Polymer Journal, 2015, 66, 170-179.	5.4	53
122	Synthesis and characterization of the polyols by air oxidation of soybean oil and its effect on the morphology and dynamic mechanical properties of poly(vinyl chloride) blends. Journal of Applied Polymer Science, 2015, 132, .	2.6	11
123	Novel nanostructured lipid carrier-based inserts for controlled ocular drug delivery: evaluation of corneal bioavailability and treatment efficacy in bacterial keratitis. Expert Opinion on Drug Delivery, 2015, 12, 1791-1807.	5.0	53
124	Effect of Plasticizer Type and Concentration on Dynamic Mechanical Properties of Sugar Palm Starch–Based Films. International Journal of Polymer Analysis and Characterization, 2015, 20, 627-636.	1.9	40
125	A novel biobased plasticizer of epoxidized cardanol glycidyl ether: synthesis and application in soft poly(vinyl chloride) films. RSC Advances, 2015, 5, 56171-56180.	3.6	104
126	Control-release of antimicrobial sophorolipid employing different biopolymer matrices. Biocatalysis and Agricultural Biotechnology, 2015, 4, 342-348.	3.1	30
127	Layer-by-Layer films based on biopolymers extracted from red seaweeds and polyaniline for applications in electrochemical sensors of chromium VI. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 200, 9-21.	3.5	31
128	Biodegradable Starch Nanocomposites. Advanced Structured Materials, 2015, , 17-77.	0.5	31

#	ARTICLE	IF	CITATIONS
129	Singly and binary grafted poly(vinyl chloride) urinary catheters that elute ciprofloxacin and prevent bacteria adhesion. International Journal of Pharmaceutics, 2015, 488, 20-28.	5.2	28
130	Behavior of adipic dihydrazide and silica in the preparation of acrylate redispersible polymer powders. Colloid and Polymer Science, 2015, 293, 1937-1944.	2.1	2
131	The Effect of Polymer/ Plasticiser Ratio in Film Forming Solutions on the Properties of Chitosan Films. Food Biophysics, 2015, 10, 324-333.	3.0	28
132	Plasticization of poly(lactic acid) through blending with oligomers of lactic acid: Effect of the physical aging on properties. European Polymer Journal, 2015, 66, 533-542.	5.4	64
133	Physical and structural properties and thermal behaviour of starch-poly(É)-caprolactone) blend films for food packaging. Food Packaging and Shelf Life, 2015, 5, 10-20.	7.5	63
134	Environment friendly green composites based on soy protein isolate – A review. Food Hydrocolloids, 2015, 50, 174-192.	10.7	179
135	Migration of epoxidised soybean oil from PVC gaskets of commercial lids: simulation of migration under various conditions and screening of food products from Czech markets. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2015, 32, 1-11.	2.3	1
136	Physical properties and antimicrobial activities of porcine meat and bone meal protein films containing coriander oil. LWT - Food Science and Technology, 2015, 63, 700-705.	5.2	26
137	Thermoformable Anhydride–Glycerol Modified Meat and Bone Meal Bioplastics. Journal of Polymers and the Environment, 2015, 23, 517-525.	5.0	2
138	Enzymatically degradable and flexible bio-nanocomposites derived from PHBV and PBAT blend: assessing thermal, morphological, mechanical, and biodegradation properties. Colloid and Polymer Science, 2015, 293, 2921-2930.	2.1	21
139	Studies on mechanical, thermal, and morphological characteristics of biocomposites from biodegradable polymer blends and natural fibers. , 2015, , 93-140.		21
140	Unexpected observation of highly thermostable transcrystallinity of poly(lactic acid) induced by aligned carbon nanotubes. European Polymer Journal, 2015, 63, 177-185.	5.4	21
141	Bio-based biodegradable film to replace the standard polyethylene cover for silage conservation. Journal of Dairy Science, 2015, 98, 386-394.	3.4	17
142	Effect of glycerol and Ca+2 addition on physicochemical properties of edible carrageenan/porphyran-based films obtained from the red alga, Pyropia columbina. Journal of Applied Phycology, 2015, 27, 1699-1708.	2.8	20
143	Characterisation of a new biodegradable edible film based on sage seed gum: Influence of plasticiser type and concentration. Food Hydrocolloids, 2015, 43, 290-298.	10.7	169
144	Cellulose nanocrystal driven crystallization of poly(<scp>d</scp> , <scp> </scp> â€lactide) and improvement of the thermomechanical properties. Journal of Applied Polymer Science, 2015, 132, .	2.6	39
145	Acetylation of bleached Kraft pulp: Effect of xylan content on properties of acetylated compounds. Carbohydrate Polymers, 2015, 117, 1014-1020.	10.2	16
146	Preparation of dense gelatin membranes by combining temperature induced gelation and dry-casting. Journal of Membrane Science, 2015, 473, 45-53.	8.2	22

#	Article	IF	CITATIONS
147	Compounding and Additives., 2015,, 215-262.		2
148	Influence of Electrospinning Parameters on Fiber Diameter and Mechanical Properties of Poly(3-Hydroxybutyrate) (PHB) and Polyanilines (PANI) Blends. Polymers, 2016, 8, 97.	4.5	36
149	The Role of Biopolymers in Obtaining Environmentally Friendly Materials. , 0, , .		18
150	REVIEW ON THE POTENTIAL USE OF WASTE COOKING PALM OIL IN THE PRODUCTION OF HIGH OLEIC PALM OIL VIA ENZYMATIC ACIDOLYSIS. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	5
151	Innovative Biobased Materials for Packaging Sustainability., 2016,, 167-189.		9
152	Preparation and in vitro Release Mechanisms of Modified Pectin Matrix Tablets for Colon-Targeted Drug Delivery. BioResources, 2016, 12, .	1.0	3
153	Structure and properties relationship of melt reacted polyamide $6/m$ alenized soybean oil. Journal of Applied Polymer Science, 2016, 133, .	2.6	12
154	Agarose―and alginateâ€based biopolymers for sample preparation: Excellent green extraction tools for this century. Journal of Separation Science, 2016, 39, 1152-1159.	2.5	15
155	Effect of miscibility on mechanical and thermal properties of poly(lactic acid)/ polycaprolactone blends. Polymer International, 2016, 65, 453-463.	3.1	98
156	Starchâ€g″actic acid/montmorillonite nanocomposite: Synthesis, characterization and controlled drug release study. Starch/Staerke, 2016, 68, 177-187.	2.1	58
157	Synthesis of a novel polyester plasticizer based on glyceryl monooleate and its application in poly(vinyl chloride). Journal of Vinyl and Additive Technology, 2016, 22, 514-519.	3.4	25
158	Lipaseâ€catalyzed esterification of konjac glucomannan in isooctane. Environmental Progress and Sustainable Energy, 2016, 35, 1149-1155.	2.3	7
159	Preparation and properties of arenga starch-chitosan based edible film. IOP Conference Series: Materials Science and Engineering, 2016, 107, 012047.	0.6	0
160	The effect of glicerol and sorbitol plasticizers toward disintegration time of phyto-capsules. AIP Conference Proceedings, 2016, , .	0.4	0
161	Tailoring soy protein film properties by selecting casting or compression as processing methods. European Polymer Journal, 2016, 85, 499-507.	5.4	34
162	Packaging: A Noteworthy Feature in Food Safety. , 2016, , 461-490.		0
163	Antimicrobial azobenzene compounds and their potential use in biomaterials. AIP Conference Proceedings, 2016, , .	0.4	11
166	Preparation and degradation mechanisms of biodegradable polymer: a review. IOP Conference Series: Materials Science and Engineering, 2016, 137, 012003.	0.6	17

#	Article	IF	Citations
167	Petroâ€based and bioâ€based plasticizers: Chemical structures to plasticizing properties. Journal of Polymer Science Part A, 2016, 54, 11-33.	2.3	276
168	Bitter vetch (Vicia ervilia) seed protein concentrate as possible source for production of bilayered films and biodegradable containers. Food Hydrocolloids, 2016, 60, 232-242.	10.7	26
169	Ester plasticizers for polyvinyl chloride. Russian Journal of Applied Chemistry, 2016, 89, 1-15.	0.5	14
170	Graphene induced microstructural changes of PLA/MWCNT biodegradable nanocomposites: rheological, morphological, thermal and electrical properties. RSC Advances, 2016, 6, 49747-49759.	3.6	81
171	Biodegradability and plasticizing effect of yerba mate extract on cassava starch edible films. Carbohydrate Polymers, 2016, 151, 150-159.	10.2	268
172	Structural Changes of Gluten/Glycerol Plastics under Dry and Moist Conditions and during Tensile Tests. ACS Sustainable Chemistry and Engineering, 2016, 4, 3388-3397.	6.7	18
173	Comparative study on properties of edible films based on pinh \tilde{A} £o (Araucaria angustifolia) starch and flour. Food Hydrocolloids, 2016, 60, 279-287.	10.7	58
174	Analysis of steady state and non-steady state corneal permeation of diclofenac. RSC Advances, 2016, 6, 31976-31987.	3.6	14
175	Antioxidant and antibacterial lignin nanoparticles in polyvinyl alcohol/chitosan films for active packaging. Industrial Crops and Products, 2016, 94, 800-811.	5.2	307
176	Xylan and xylan derivatives—Their performance in bio-based films and effect of glycerol addition. Industrial Crops and Products, 2016, 94, 682-689.	5.2	34
177	Sustainable Fish Gelatin Films: from Food Processing Waste to Compost. ACS Sustainable Chemistry and Engineering, 2016, 4, 4626-4634.	6.7	47
178	Biodegradable soy protein films with controllable water solubility and enhanced mechanical properties via graft polymerization. Polymer Degradation and Stability, 2016, 133, 75-84.	5.8	24
179	Starch behaviors and mechanical properties of starch blend films with different plasticizers. Carbohydrate Polymers, 2016, 154, 112-120.	10.2	92
180	Chitosan and gelatin based biodegradable packaging films with UV-light protection. Journal of Photochemistry and Photobiology B: Biology, 2016, 163, 115-124.	3.8	111
181	Thermal and Structural Properties of Silk Biomaterials Plasticized by Glycerol. Biomacromolecules, 2016, 17, 3911-3921.	5.4	40
182	Development of Paint Based on Residue of Expanded Polystyrene: Polymeric Plasticizer Evaluation. Macromolecular Symposia, 2016, 368, 8-18.	0.7	1
183	Biocidal and Antifouling Chlorinated Protein Films. ACS Biomaterials Science and Engineering, 2016, 2, 1862-1866.	5.2	16
184	Cashew gum-chitosan blended films: Spectral, mechanical and surface wetting evaluations. Macromolecular Research, 2016, 24, 691-697.	2.4	25

#	ARTICLE	IF	CITATIONS
185	Physico-Mechanical Properties of Starch-Based Nanocomposite Film Incorporated with Hydrothermally Synthesized Zinc Oxide Nanoparticles. Materials Science Forum, 2016, 872, 162-167.	0.3	4
186	Novel Smart Chitosan-Grafted Alginate Microcapsules pH-Sensitive Hydrogel for Oral Protein Delivery: Release and Bio-Evaluation Studies. , 2016, , 409-440.		1
187	Valorization of Agricultural Wastes for the Production of Protein-Based Biopolymers. Journal of Renewable Materials, 2016, 4, 165-177.	2.2	25
188	Conventional and Alternative Plasticizers and Cross-Linkers. Food Preservation Technology, 2016, , 215-239.	0.0	O
189	Films and Coatings from Vegetable Protein. Food Preservation Technology, 2016, , 65-87.	0.0	0
190	Synthesis of a bio-based plasticizer from oleic acid and its evaluation in PVC formulations. Polymer Testing, 2016, 56, 237-244.	4.8	32
191	Biopolymers Directly Developed from Biomasses from Agrowaste Sources. , 2016, , 485-514.		0
192	Influence of plasticizers on the mechanical and barrier properties of cast biopolymer films. Journal of Applied Polymer Science, 2016, 133, .	2.6	29
193	Physicochemical characteristics of glycerolâ€plasticized dextran/soy protein isolate composite membranes. Journal of Applied Polymer Science, 2016, 133, .	2.6	8
194	Edible films and coatings based on biodegradable residues applied to acerolas (<i>Malpighia) Tj ETQq1 1 0.784314</i>	4 rgBT /Ov	verlock 10 To
195	The enzyme-mediated autodeposition of casein: effect of enzyme immobilization on deposition of protein structures. Journal of Coatings Technology Research, 2016, 13, 597-611.	2.5	8
196	Effects of plasticizers on sorption and optical properties of gum cordia based edible film. Journal of Food Science and Technology, 2016, 53, 2606-2613.	2.8	13
197	Influence of tragacanth gum in egg white based bioplastics: Thermomechanical and water uptake properties. Carbohydrate Polymers, 2016, 152, 62-69.	10.2	26
198	Complex coacervation for the development of composite edible films based on LM pectin and sodium caseinate. Carbohydrate Polymers, 2016, 151, 947-956.	10.2	73
199	Influence of DE-value on the physicochemical properties of maltodextrin for melt extrusion processes. Carbohydrate Polymers, 2016, 144, 464-473.	10.2	89
200	Films based on neutralized chitosan citrate as innovative composition for cosmetic application. Materials Science and Engineering C, 2016, 67, 115-124.	7.3	54
201	Synthesis and application of a novel environmental plasticizer based on cardanol for poly(vinyl) Tj ETQq0 0 0 rgBT	/Oyerlock	10 Tf 50 10
202	Development of innovative biodegradable films based on biomass of Saccharomyces cerevisiae. Innovative Food Science and Emerging Technologies, 2016, 36, 83-91.	5.6	21

#	Article	IF	CITATIONS
203	Functions of soymeal compositions in textile sizing. Industrial Crops and Products, 2016, 89, 455-464.	5.2	20
204	Effect of Type of Plasticizers on Mechanical and Water Barrier Properties of Transglutaminase Cross-Linked Zein–Oleic Acid Composite Films. International Journal of Food Engineering, 2016, 12, 365-376.	1.5	10
205	Production of Starch Based Bioplastic from Cassava Peel Reinforced with Microcrystalline Celllulose Avicel PH101 Using Sorbitol as Plasticizer. Journal of Physics: Conference Series, 2016, 710, 012012.	0.4	58
206	Dynamic mechanical analysis of the multiple glass transitions of plasticized wheat gluten biopolymer. Journal of Applied Polymer Science, 2016, 133, .	2.6	20
207	On the efficiency of oleic acid as plasticizer of chitosan/clay nanocomposites and its role on thermo-mechanical, barrier and antimicrobial properties – Comparison with glycerol. Food Hydrocolloids, 2016, 57, 10-19.	10.7	61
208	Development of rice protein bio-based plastic materials processed by injection molding. Industrial Crops and Products, 2016, 79, 152-159.	5.2	43
209	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.	16.4	157
210	Use of thiol-ene click chemistry to modify mechanical and thermal properties of polyhydroxyalkanoates (PHAs). International Journal of Biological Macromolecules, 2016, 83, 358-365.	7. 5	33
211	Atmospheric plasma assisted PLA/microfibrillated cellulose (MFC) multilayer biocomposite for sustainable barrier application. Industrial Crops and Products, 2016, 93, 235-243.	5.2	41
212	Improvement of water barrier properties of starch films by lipid nanolamination. Food Packaging and Shelf Life, 2016, 7, 41-46.	7.5	43
213	Influences on the film thickness in the enzymatic autodeposition process of casein. Progress in Organic Coatings, 2016, 94, 56-61.	3.9	5
214	The role of glycerol and water in flexible silk sericin film. International Journal of Biological Macromolecules, 2016, 82, 945-951.	7.5	39
215	Novel nanofibrillated cellulose/chitosan nanoparticles nanocomposites films and their use for paper coating. Industrial Crops and Products, 2016, 93, 219-226.	5. 2	99
216	Ionomers for Tunable Softening of Thermoplastic Polyurethane. Macromolecules, 2016, 49, 926-934.	4.8	20
217	Melt Extrusion Encapsulation of Flavors: A Review. Polymer Reviews, 2016, 56, 137-186.	10.9	43
218	Nano-TiO 2 particles and high hydrostatic pressure treatment for improving functionality of polyvinyl alcohol and chitosan composite films and nano-TiO 2 migration from film matrix in food simulants. Innovative Food Science and Emerging Technologies, 2016, 33, 145-153.	5. 6	86
219	Valorization of organic residues for the production of added value chemicals: A contribution to the bio-based economy. Biochemical Engineering Journal, 2016, 116, 3-16.	3.6	84
220	Fully bio-based and biodegradable polylactic acid/poly(3-hydroxybutirate) blends: Use of a common plasticizer as performance improvement strategy. Polymer Testing, 2016, 49, 22-28.	4.8	67

#	Article	IF	CITATIONS
221	Influence of Processing Conditions on Morphological, Thermal and Degradative Behavior of Nanocomposites Based on Plasticized Poly(3-hydroxybutyrate) and Organo-Modified Clay. Journal of Polymers and the Environment, 2016, 24, 12-22.	5.0	14
222	Plasticizing effects of citrate esters on properties of poly(lactic acid). Journal of Polymer Engineering, 2016, 36, 371-380.	1.4	43
223	Promising PLAâ€functionalized MWCNT composites to use in nanotechnology. Polymer Composites, 2016, 37, 3066-3072.	4.6	10
224	Treatment of Radiation-Induced Oral Mucositis Using a Novel Accepted Taste of Prolonged Release Mucoadhesive Bi-medicated Double-Layer Buccal Films. AAPS PharmSciTech, 2017, 18, 563-575.	3.3	20
225	A review on research and development of green composites from plant protein-based polymers. Polymer Composites, 2017, 38, 1504-1518.	4.6	47
226	The effect of maleinized linseed oil as biobased plasticizer in poly(lactic acid)â€based formulations. Polymer International, 2017, 66, 882-891.	3.1	57
227	Improvement on Physical Properties of Pullulan Films by Novel Crossâ€Linking Strategy. Journal of Food Science, 2017, 82, 108-117.	3.1	28
228	Structure and phase behaviour of microcrystalline cellulose in mixture with condensed systems of potato starch. International Journal of Food Science and Technology, 2017, 52, 800-807.	2.7	3
229	Interaction between vegetable oil based plasticizer molecules and polyvinyl chloride, and their plasticization effect. AIP Conference Proceedings, 2017, , .	0.4	5
230	Development and Evaluation of Buccal Films Based on Chitosan for the Potential Treatment of Oral Candidiasis. AAPS PharmSciTech, 2017, 18, 936-946.	3.3	59
231	PLASTICIZER TYPES., 2017,, 7-84.		1
232	Plasticizing and crosslinking effects of borate additives on the structure and properties of poly(vinyl) Tj ETQq1	1 0.784314	rgBT /Over
233	Physicochemical Characterization of a Heat Treated Calcium Alginate Dry Film Prepared with Chicken Stock. Journal of Food Science, 2017, 82, 945-951.	3.1	6
234	Control of properties of nanocomposites bio-based collagen and cellulose nanocrystals. Cellulose, 2017, 24, 1731-1744.	4.9	13
236	<scp>D</scp> â€isosorbide and 1,3â€propanediol as plasticizers for starchâ€based films: Characterization and aging study. Journal of Applied Polymer Science, 2017, 134, .	2.6	26
237	Biobased nanocomposites based on collagen, cellulose nanocrystals, and plasticizers. Journal of Applied Polymer Science, 2017, 134, .	2.6	8
238	A novel bioactive edible coating based on sodium alginate and galbanum gum incorporated with essential oil of Ziziphora persica: The antioxidant and antimicrobial activity, and application in food model. Food Hydrocolloids, 2017, 72, 35-46.	10.7	77
239	Softwood-lignin/natural rubber composites containing novel plasticizing agent: Preparation and characterization. Industrial Crops and Products, 2017, 95, 675-685.	5.2	48

#	Article	IF	CITATIONS
240	Manufacture and characterization of chitosan/PLGA nanoparticles nanocomposite buccal films. Carbohydrate Polymers, 2017, 173, 638-644.	10.2	42
241	3D Printing of Microstructured and Stretchable Chitosan Hydrogel for Guided Cell Growth. Advanced Biology, 2017, 1, 1700058.	3.0	76
242	Edible coatings minimize fat uptake in deep fat fried products: A review. Food Hydrocolloids, 2017, 71, 225-235.	10.7	127
243	Smart Microparticles with a pH-responsive Macropore for Targeted Oral Drug Delivery. Scientific Reports, 2017, 7, 3059.	3.3	29
244	Study of the plasticising effect on polymer and its development in fuel cell application. Renewable and Sustainable Energy Reviews, 2017, 79, 794-805.	16.4	24
245	An unexplored remarkable PNIPAM-osmolyte interaction study: An integrated experimental and simulation approach. Journal of Colloid and Interface Science, 2017, 504, 417-428.	9.4	33
246	Physical and mechanical properties of a new edible film made of pea starch and guar gum as affected by glycols, sugars and polyols. International Journal of Biological Macromolecules, 2017, 104, 345-359.	7.5	111
247	Development of chitosan based extended-release antioxidant films by control of fabrication variables. International Journal of Biological Macromolecules, 2017, 104, 303-310.	7.5	33
248	Edible films from mucilage of <scp><i>C</i></scp> <i>ereus hildmannianus</i> fruits: Development and characterization. Journal of Applied Polymer Science, 2017, 134, 45223.	2.6	14
249	Selective monophosphorylation of chitosan via phosphorus oxychloride. Polymer Chemistry, 2017, 8, 2552-2558.	3.9	11
250	Mechanical and Thermal Properties of Thermoplastic Film from <i>Tacca leontopetaloides</i> Starch Reinforced with Rice Husk Biochar. Materials Science Forum, 0, 890, 188-191.	0.3	1
251	Impact of the homogenization process on the structure and antioxidant properties of chitosan-lignin composite films. Food Chemistry, 2017, 236, 120-126.	8.2	56
252	Chitosan–graphene oxide nanocomposites: Effect of graphene oxide nanosheets and glycerol plasticizer on thermal and mechanical properties. Journal of Applied Polymer Science, 2017, 134, 45092.	2.6	53
253	Developing a potential antibacterial long-term degradable electrospun gelatin-based composites mats for wound dressing applications. Reactive and Functional Polymers, 2017, 114, 8-12.	4.1	27
254	Biodegradable poly (I-lactic acid) (PLLA) and PLLA-3-arm blend membranes: The use of PLLA-3-arm as a plasticizer. Polymer Testing, 2017, 60, 84-93.	4.8	33
255	More surprises in the global greenhouse: Human health impacts from recent toxic marine aerosol formations, due to centennial alterations of world-wide coastal food webs. Marine Pollution Bulletin, 2017, 116, 9-40.	5.0	19
256	Development and characterization of nanosoyâ€reinforced dextran nanocomposite membranes. Journal of Applied Polymer Science, 2017, 134, .	2.6	7
257	Polysaccharides as protectants for paper-based analytical devices with antibody. Talanta, 2017, 165, 357-363.	5 . 5	11

#	ARTICLE	IF	CITATIONS
258	Tunable softening and toughening of individualized cellulose nanofibers-polyurethane urea elastomer composites. Carbohydrate Polymers, 2017, 159, 125-135.	10.2	33
259	Effect of candelilla wax edible coatings combined with biocontrol bacteria on strawberry quality during the shelf-life. Scientia Horticulturae, 2017, 214, 273-279.	3.6	78
260	Amylose-lipid complex as a measure of variations in physical, mechanical and barrier attributes of rice starch- \hat{l}^1 -carrageenan biodegradable edible film. Food Packaging and Shelf Life, 2017, 14, 108-115.	7. 5	52
261	Effects of diisononyl phthalate on Danio rerio reproduction. Environmental Pollution, 2017, 231, 1051-1062.	7.5	48
262	A highly deformable conducting traces for printed antennas and interconnects: silver/fluoropolymer composite amalgamated by triethanolamine. Flexible and Printed Electronics, 2017, 2, 045001.	2.7	30
263	Food contact materials and gut health: Implications for toxicity assessment and relevance of high molecular weight migrants. Food and Chemical Toxicology, 2017, 109, 1-18.	3.6	46
264	Malic acid: A novel processing aid for thermoplastic starch/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5 Science, 2017, 134, 45539.	07 Td (adi 2.6	ipateâ€∢i>co 11
266	On the Plasticization Process of Potato Starch: Preparation and Characterization. Food Biophysics, 2017, 12, 397-403.	3.0	34
267	Starch content affects physicochemical properties of corn and cassava starch-based films. Industrial Crops and Products, 2017, 109, 619-626.	5.2	136
268	Environmental performance of bio-based and biodegradable plastics: the road ahead. Chemical Society Reviews, 2017, 46, 6855-6871.	38.1	502
269	Synthesis and melt processing of cellulose esters for preparation of thermoforming materials and extended drug release tablets. Carbohydrate Polymers, 2017, 177, 105-115.	10.2	12
270	Synthesis of Nm-PHB (nanomelanin-polyhydroxy butyrate) nanocomposite film and its protective effect against biofilm-forming multi drug resistant Staphylococcus aureus. Scientific Reports, 2017, 7, 9167.	3.3	51
271	Transdermal delivery of gentamicin using dissolving microneedle arrays for potential treatment of neonatal sepsis. Journal of Controlled Release, 2017, 265, 30-40.	9.9	138
272	Development and characterization of ricinoleic acid-based sulfhydryl thiol and ethyl cellulose blended membranes. Carbohydrate Polymers, 2017, 175, 131-140.	10.2	15
273	Preparation of Chitosan/Collagen Blend Membranes for Wound Dressing: A Study on FTIR Spectroscopy and Mechanical Properties. IOP Conference Series: Materials Science and Engineering, 2017, 202, 012020.	0.6	25
274	Experimental and Theoretical Study of Azimuth Angle and Polarization Dependences of Sum-Frequency-Generation Vibrational Spectral Features of Uniaxially Aligned Cellulose Crystals. Journal of Physical Chemistry C, 2017, 121, 18876-18886.	3.1	21
275	Polymer additives. ChemistrySelect, 2017, 2, .	1.5	28
276	Plasticization of poly(lactic acid) using different molecular weight of Poly(ethylene glycol). AIP Conference Proceedings, 2017, , .	0.4	9

#	Article	IF	CITATIONS
277	Thermoresponsive and pH triggered drug release of cholate functionalized poly(organophosphazene) – polylactic acid co-polymeric nanostructure integrated with ICG. Polymer, 2017, 133, 119-128.	3.8	43
278	Antimicrobial activity of gelatin films based on duck feet containing cinnamon leaf oil and their applications in packaging of cherry tomatoes. Food Science and Biotechnology, 2017, 26, 1429-1435.	2.6	16
279	Novel PHB/Olive mill wastewater residue composite based film: Thermal, mechanical and degradation properties. Journal of Environmental Chemical Engineering, 2017, 5, 6001-6007.	6.7	13
280	Wood Plastic Composites Prepared from Biodegradable Poly(butylene succinate) and Burma Padauk Sawdust (Pterocarpus macrocarpus): Water Absorption Kinetics and Sunlight Exposure Investigations. Journal of Bionic Engineering, 2017, 14, 781-790.	5.0	32
281	Sustainable packaging materials from tannery trimming solid waste: A new paradigm in wealth from waste approaches. Journal of Cleaner Production, 2017, 164, 885-891.	9.3	39
282	Electrospinning of polylactic acid fibres containing tea tree and manuka oil. Reactive and Functional Polymers, 2017, 117, 106-111.	4.1	52
283	Influence of the scale and type of processing tool on plasticization of cellulose acetate. Polymer Engineering and Science, 2017, 57, 563-569.	3.1	7
284	Mechanically ground softwood fines as a raw material for cellulosic applications. Cellulose, 2017, 24, 3869-3882.	4.9	6
285	Semiaromatic Polyesters Derived from Renewable Terpene Oxides with High Glass Transitions. Macromolecules, 2017, 50, 5337-5345.	4.8	101
286	Influence of carboxylic acids on mechanical properties of thermoplastic starch by spray drying. Fibers and Polymers, 2017, 18, 64-73.	2.1	4
287	A comparative study on selective properties of Kraft lignin–natural rubber composites containing different plasticizers. Iranian Polymer Journal (English Edition), 2017, 26, 453-466.	2.4	30
288	A novel solution blending method for using olive oil and corn oil as plasticizers in chitosan based organoclay nanocomposites. Carbohydrate Polymers, 2017, 157, 550-557.	10.2	47
289	Studies on performance evaluation of a green plasticizer made by enzymatic esterification of furfuryl alcohol and castor oil fatty acid. Carbohydrate Polymers, 2017, 157, 1076-1084.	10.2	25
290	Nonisothermal crystallization behavior and molecular dynamics of poly(lactic acid) plasticized with jojoba oil. Journal of Thermal Analysis and Calorimetry, 2017, 128, 211-223.	3.6	20
291	Polymer Composites from Poly(vinyl alcohol), Horn Meal and Crude Glycerol for Mulching Coatings. Waste and Biomass Valorization, 2017, 8, 1225-1235.	3.4	6
292	Value Addition to Food Industry By-Products and Wastes (Deoiled Rice Bran and Banana Peel) by Optimizing Pellets' Formulation Using Response Surface Methodology: Characterisation and Classification by PCA Approach. Journal of Food Processing and Preservation, 2017, 41, e13132.	2.0	4
293	Size effect of ZnO nanorods on physicochemical properties of plasticized starch composites. Carbohydrate Polymers, 2017, 157, 1611-1619.	10.2	43
294	Characterization of edible packaging films based on semi-refined kappa-carrageenan plasticized with glycerol and sorbitol. Food Hydrocolloids, 2017, 64, 48-58.	10.7	228

#	Article	IF	CITATIONS
295	Multi-objective optimization of process conditions in the manufacturing of banana (Musa paradisiaca) Tj ETQq0 (0 o rgBT /0	Overlock 10 T
296	Mechanical and moisture sensitivity of fully bio-based dialdehyde carboxymethyl cellulose cross-linked soy protein isolate films. Carbohydrate Polymers, 2017, 157, 1333-1340.	10.2	73
297	Centella asiatica leaf mediated synthesis of silver nanocolloid and its application as filler in gelatin based antimicrobial nanocomposite film. LWT - Food Science and Technology, 2017, 75, 293-300.	5.2	41
298	Characterization and Film-Forming Properties of Gelatins from Whitemouth Croaker (<i>Micropogonias furnieri</i>) Skin and Bones. Journal of Aquatic Food Product Technology, 2017, 26, 447-456.	1.4	2
299	Synthesis and application of environmental soybean oilâ€based epoxidized glycidyl ester plasticizer for poly(vinyl chloride). European Journal of Lipid Science and Technology, 2017, 119, 1600216.	1.5	25
300	Edible Coatings and Films from Lipids, Waxes, and Resins. , 2017, , 121-152.		0
301	Mechanical and thermal properties of PLA/halloysite bio-nanocomposite films: effect of halloysite nanoclay concentration and addition of glycerol. Journal of Polymer Engineering, 2017, 37, 381-389.	1.4	9
302	Effect of plasticizers on the physico-mechanical properties of pullulan based pharmaceutical oral films. European Journal of Pharmaceutical Sciences, 2017, 96, 290-298.	4.0	69
303	Polysaccharide-based films and coatings for food packaging: A review. Food Hydrocolloids, 2017, 68, 136-148.	10.7	880
304	Cellulose acetate-based composites with antimicrobial properties from embedded molybdenum trioxide particles. Letters in Applied Microbiology, 2017, 64, 43-50.	2.2	14
305	A platform for more sustainable chitin films from an ionic liquid process. Green Chemistry, 2017, 19, 117-126.	9.0	75
306	Preparation and characterization of protocatechuic acid grafted chitosan films with antioxidant activity. Food Hydrocolloids, 2017, 63, 457-466.	10.7	171
307	Hierarchical xanthan gum/graphene oxide nanocomposite film induced by ferric ions coordination. Materials and Design, 2017, 113, 232-239.	7.0	29
308	Physical Characterization of Biodegradable Films Based on Chitosan, Polyvinyl Alcohol and Opuntia Mucilage. Journal of Polymers and the Environment, 2017, 25, 683-691.	5.0	37
309	Physico-Chemical Properties of Extruded Copolymer Film. Journal of Food Processing and Preservation, 2017, 41, e12808.	2.0	7
310	Optimization of factors to obtain cassava starch films with improved mechanical properties. Journal of Physics: Conference Series, 2017, 885, 012001.	0.4	1
311	5. Polymer additives. , 2017, , 139-170.		4
314	A Facile Pathway to Modify Cellulose Composite Film by Reducing Wettability and Improving Barrier towards Moisture. Materials, 2017, 10, 39.	2.9	1

#	Article	IF	CITATIONS
315	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, .	1.0	8
316	Effect of Guar Gum with Sorbitol Coating on the Properties and Oil Absorption of French Fries. International Journal of Molecular Sciences, 2017, 18, 2700.	4.1	26
317	Synthesis and Properties of a Novel Environmental Epoxidized Glycidyl Ester of Ricinoleic Acetic Ester Plasticizer for Poly(vinyl chloride). Polymers, 2017, 9, 640.	4.5	30
318	Biopolymer/clay nanocomposites as the high barrier packaging material: recent advances. , 2017, , 425-463.		8
319	Effect of Molecular Size of Modifying Agents on the Properties of Gelatin films. Food Science and Technology Research, 2017, 23, 119-127.	0.6	3
320	The Effects of Biopolymers Composite Based Waste Cooking Oil and Titanium Dioxide Fillers as Superhydrophobic Coatings IOP Conference Series: Materials Science and Engineering, 2017, 226, 012161.	0.6	2
321	Thermoplastic Waxy Starch Films Processed by Extrusion and Pressing: Effect of Glycerol and Water Concentration. Materials Research, 2017, 20, 353-357.	1.3	11
322	Tuning the Functional Properties of Bitter Vetch (Vicia ervilia) Protein Films Grafted with Spermidine. International Journal of Molecular Sciences, 2017, 18, 2658.	4.1	16
323	Thermoelectric Properties of Biopolymer Composites. , 2017, , 155-183.		8
324	Production of Starch Films Using Propolis Nanoparticles as Novel Bioplasticizer. Journal of Renewable Materials, 2017, 5, 189-198.	2.2	26
325	Adhesive based on micellar lupin protein isolate exhibiting oxygen barrier properties. Journal of Applied Polymer Science, 2018, 135, 46383.	2.6	3
326	Antiplasticizing Behaviors of Glucarate and Lignin Bioâ€Based Derivatives on the Properties of Gelâ€Spun Poly(Vinyl Alcohol) Fibers. Macromolecular Materials and Engineering, 2018, 303, 1700523.	3.6	13
327	Encapsulation of red palm oil in carboxymethyl sago cellulose beads by emulsification and vibration technology: Physicochemical characterization and inÂvitro digestion. Journal of Food Engineering, 2018, 231, 10-21.	5.2	17
328	Renewable Semi-Interpenetrating Polymer Networks Based on Vegetable Oils Used as Plasticized Systems of Poly(3-hydroxyalkanoate)s. ACS Sustainable Chemistry and Engineering, 2018, 6, 5034-5042.	6.7	16
329	Supercritical CO 2 impregnation of PLA/PCL films with natural substances for bacterial growth control in food packaging. Food Research International, 2018, 107, 486-495.	6.2	80
330	Natural deep eutectic solvents as green plasticizers for chitosan thermoplastic production with controlled/desired mechanical and barrier properties. Food Hydrocolloids, 2018, 82, 478-489.	10.7	79
331	Pectin/Carboxymethylcellulose Films as a Potential Food Packaging Material. Macromolecular Symposia, 2018, 378, 1600163.	0.7	31
332	Chitosan/Polyvinylpyrrolidone/MCMâ€41 Composite Hydrogel Films: Structural, Thermal, Surface, and Antibacterial Properties. Starch/Staerke, 2018, 70, 1700303.	2.1	19

#	Article	IF	Citations
333	Biodegradable hybrid nanocomposites of chitosan/gelatin and silver nanoparticles for active food packaging applications. Food Packaging and Shelf Life, 2018, 16, 178-184.	7.5	247
334	Enhancement of biogas production from cattle manure pretreated and/or co-digested at pilot-plant scale. Characterization by SEM. Renewable Energy, 2018, 126, 897-904.	8.9	35
335	Thermal analysis of poly(lactic acid) plasticized by cardanol derivatives. Journal of Thermal Analysis and Calorimetry, 2018, 134, 559-565.	3.6	23
336	Effect of the nano-fibrillation of bamboo pulp on the thermal, structural, mechanical and physical properties of nanocomposites based on starch/poly(vinyl alcohol) blend. Cellulose, 2018, 25, 1823-1849.	4.9	41
337	Synthesis and application of a novel cardanolâ€based plasticizer as secondary or main plasticizer for poly(vinyl chloride). Polymer International, 2018, 67, 269-275.	3.1	17
338	Edible protein films: Sources and behavior. Packaging Technology and Science, 2018, 31, 113-122.	2.8	65
339	Thermoelectric and mechanical properties of PLA/Bi0·5Sb1·5Te3 composite wires used for 3D printing. Composites Science and Technology, 2018, 157, 1-9.	7.8	47
340	Bioinspired capsules based on nanocellulose, xyloglucan and pectin $\hat{a} \in \text{``The influence of capsule wall composition on permeability properties. Acta Biomaterialia, 2018, 69, 196-205.}$	8.3	41
341	Amorphous Drugs., 2018,,.		26
342	Physical Instability: A Key Problem of Amorphous Drugs. , 2018, , 107-157.		4
343	Hydration and water vapour transport properties in yeast biomass based films: A study of plasticizer content and thickness effects. European Polymer Journal, 2018, 99, 9-17.	5.4	34
344	Transparent and Edible Films from Ultrasound-Treated Egg Yolk Granules. Food and Bioprocess Technology, 2018, 11, 735-747.	4.7	17
345	Influence of TiO2 nanoparticle on the thermal, morphological and molecular characteristics of PHB matrix. Polymer Testing, 2018, 65, 156-162.	4.8	30
346	Edible films and coatings from proteins. , 2018, , 477-500.		40
347	Biocompatible and biodegradable Chitosan nanocomposites loaded with carbon nanotubes. , 2018, , 187-221.		28
348	Preparation and characterization of edible chicken skin gelatin film incorporated with rice flour. Food Packaging and Shelf Life, 2018, 15, 1-8.	7. 5	73
349	Bioactive coconut protein concentrate films incorporated with antioxidant extract of mature coconut water. Food Hydrocolloids, 2018, 79, 243-252.	10.7	19
350	Cellulose-glycerol-polyvinyl alcohol composite films for food packaging: Evaluation of water adsorption, mechanical properties, light-barrier properties and transparency. Carbohydrate Polymers, 2018, 195, 432-443.	10.2	131

#	Article	IF	CITATIONS
351	Thermal, Morphological and Physic-Mechanical Properties of Natural Rubber - CaCO ₃ Composites Using Jatropha Oil as Softener MATEC Web of Conferences, 2018, 156, 05016.	0.2	6
352	Chitosan film incorporated with citric acid and glycerol as an active packaging material for extension of green chilli shelf life. Carbohydrate Polymers, 2018, 195, 329-338.	10.2	206
353	Fabrication of Nanosuspension Directly Loaded Fast-Dissolving Films for Enhanced Oral Bioavailability of Olmesartan Medoxomil: In Vitro Characterization and Pharmacokinetic Evaluation in Healthy Human Volunteers. AAPS PharmSciTech, 2018, 19, 2118-2132.	3.3	21
354	Highly efficient and recyclable catalysts SnCl 2 – x H 3 PW 12 O 40 /AC with BrÃ,nsted and Lewis acid sites for terephthalic acid esterification. Journal of the Taiwan Institute of Chemical Engineers, 2018, 86, 18-24.	5.3	10
355	Stearic acid modified casein based nanocomposites with improved mechanical and thermal properties. Materials Today: Proceedings, 2018, 5, 6247-6257.	1.8	7
356	Nano Fibrous Scaffolds for Tissue Engineering Application. , 2018, , 1-28.		1
357	Study on the effect of graphene and glycerol plasticizer on the properties of chitosan-graphene nanocomposites via in situ green chemical reduction of graphene oxide. International Journal of Biological Macromolecules, 2018, 114, 599-613.	7.5	51
358	The role of choline chloride-based deep eutectic solvent and curcumin on chitosan films properties. Food Hydrocolloids, 2018, 81, 456-466.	10.7	71
359	Measuring Material Moisture in Fiber Reinforced Polymers by Integrated Sensors. IEEE Sensors Journal, 2018, 18, 3836-3843.	4.7	9
360	Bioactive mesoporous silica nanocomposite films obtained from native and transglutaminase-crosslinked bitter vetch proteins. Food Hydrocolloids, 2018, 82, 106-115.	10.7	40
361	Superâ€tough biodegradable poly(vinyl alcohol)/poly(vinyl pyrrolidone) blends plasticized by glycerol and sorbitol. Journal of Applied Polymer Science, 2018, 135, 46406.	2.6	18
362	Gateâ€toâ€gate life cycle assessment of biosurfactants and bioplasticizers production via biotechnological exploitation of fats and waste oils. Journal of Chemical Technology and Biotechnology, 2018, 93, 2833-2841.	3.2	36
363	Tailoring Functional Chitosanâ€Based Composites for Food Applications. Chemical Record, 2018, 18, 1138-1149.	5.8	27
364	A review on present status and future challenges of starch based polymer films and their composites in food packaging applications. Polymer Composites, 2018, 39, 2499-2522.	4.6	141
365	The effect of rice straw particulate loading and polyethylene glycol as plasticizer on the properties of polylactic acid/polyhydroxybutyrate-valerate blends. Polymer Bulletin, 2018, 75, 61-76.	3.3	20
366	Influence of Amphiphilic Plasticizer on Properties of Thermoplastic Starch Films. Polymer-Plastics Technology and Engineering, 2018, 57, 17-27.	1.9	10
367	Development of Anti-bacterial PVA/Starch Based Hydrogel Membrane for Wound Dressing. Journal of Polymers and the Environment, 2018, 26, 235-243.	5.0	94
368	Influence of Plasticizers on Mechanical and Thermal Properties of Methyl Cellulose-Based Edible Films. Journal of Polymers and the Environment, 2018, 26, 291-300.	5.0	7

#	Article	IF	CITATIONS
369	Biodegradable Polymer Composites as Coating Materials for Granular Fertilizers. Journal of Polymers and the Environment, 2018, 26, 543-554.	5.0	18
370	Effect of banana and plasticizer types on mechanical, water barrier, and heat sealability of plasticized banana-based films. Journal of Food Processing and Preservation, 2018, 42, e13380.	2.0	39
371	Regenerated cellulose from high alpha cellulose pulp of steam-exploded sugarcane bagasse. Journal of Materials Research and Technology, 2018, 7, 55-65.	5.8	76
372	Edible blend films of pectin and poly(ethylene glycol): Preparation and physico-chemical evaluation. Food Hydrocolloids, 2018, 77, 494-501.	10.7	70
373	Preparation and characterization of a novel edible film based on Artemisia sphaerocephala Krasch. gum: Effects of type and concentration of plasticizers. Food Hydrocolloids, 2018, 77, 502-508.	10.7	53
374	Complete replacement of carbon black filler in rubber sole with CaO embedded activated carbon derived from tannery solid waste. Journal of Cleaner Production, 2018, 170, 446-450.	9.3	39
375	Bacterial cellulose skin masksâ€"Properties and sensory tests. Journal of Cosmetic Dermatology, 2018, 17, 840-847.	1.6	78
376	Comparison of the Effect of Plasticizers on PHBV—and Organoclay—Based Biodegradable Polymer Nanocomposites. Journal of Polymers and the Environment, 2018, 26, 2290-2299.	5.0	14
377	The effect of fatty acids on the physicochemical properties of edible films composed of gelatin and gluten proteins. LWT - Food Science and Technology, 2018, 87, 293-300.	5.2	49
378	Dual effects of fatty acid salt on the mechanical properties and morphology of styrene-based ionomers. Polymer Bulletin, 2018, 75, 2071-2083.	3.3	3
379	Development and characterization of a novel edible extruded sheet based on different casein sources and influence of the glycerol concentration. Food Hydrocolloids, 2018, 75, 182-191.	10.7	61
380	Cellulose Reinforced Biodegradable Polymer Composite Film for Packaging Applications. , 2018, , 49-69.		26
381	Bacteria-mediated phthalic acid esters degradation and related molecular mechanisms. Applied Microbiology and Biotechnology, 2018, 102, 1085-1096.	3.6	128
382	Edible sensors for meat and seafood freshness. Sensors and Actuators B: Chemical, 2018, 259, 1108-1112.	7.8	127
383	Physico-mechanical properties of gelatin films modified with Lysine, Arginine and Histidine. International Journal of Biological Macromolecules, 2018, 108, 947-952.	7.5	27
384	Characterization of a novel biodegradable edible film obtained from Dracocephalum moldavica seed mucilage. International Journal of Biological Macromolecules, 2018, 108, 874-883.	7.5	53
385	Development and formulation of Moringa oleifera standardised leaf extract film dressing for wound healing application. Journal of Ethnopharmacology, 2018, 212, 188-199.	4.1	55
386	Effect of glycerol, nanoclay and graphene oxide on physicochemical properties of biodegradable nanocellulose plastic sourced from banana pseudo-stem. Cellulose, 2018, 25, 399-416.	4.9	31

#	Article	IF	CITATIONS
387	Effect of the individual and combined use of cardanol-based plasticizers and epoxidized soybean oil on the properties of PVC. Polymer Degradation and Stability, 2018, 147, 1-11.	5.8	64
388	Optimized Ciclopirox-Based Eudragit RLPO Nail Lacquer: Effect of Endopeptidase Enzyme as Permeation Enhancer on Transungual Drug Delivery and Efficiency Against Onychomycosis. AAPS PharmSciTech, 2018, 19, 1048-1060.	3.3	17
389	Food Biopackaging Based on Chitosan. , 2018, , 1-27.		2
390	Synthesis of Tung-Oil-Based Triglycidyl Ester Plasticizer and Its Effects on Poly(vinyl chloride) Soft Films. ACS Sustainable Chemistry and Engineering, 2018, 6, 642-651.	6.7	60
391	Cellulose nanocrystals as reinforcements for collagen-based casings with low gas transmission. Cellulose, 2018, 25, 463-471.	4.9	31
392	Applicability of Crude Glycerol as the Multifunctional Additive for the Preparation of Mulching Coatings. Waste and Biomass Valorization, 2018, 9, 1855-1865.	3.4	4
393	Assessment of chemicals released in the marine environment by dielectric elastomers useful as active elements in wave energy harvesters. Journal of Hazardous Materials, 2018, 341, 390-403.	12.4	4
394	Cornstarch-Gelatin Films: Commercial Gelatin Versus Chromed Leather Waste Gelatin and Evaluation of Drying Conditions. Journal of Polymers and the Environment, 2018, 26, 1998-2006.	5.0	27
395	Development and characterization of semi-refined carrageenan (SRC) films from <i>Eucheuma cottonii</i> ii> incorporated with glycerol and î±-tocopherol for active food packaging application. IOP Conference Series: Materials Science and Engineering, 0, 458, 012022.	0.6	10
396	Evaluation of the Biodegradation for Oil Absorbed Cassava Starch Film Filled with Kenaf Core Fiber. IOP Conference Series: Materials Science and Engineering, 2018, 429, 012043.	0.6	4
397	The effect of glycerol addition as plasticizer in Spirulina platensis based bioplastic. E3S Web of Conferences, 2018, 67, 03048.	0.5	19
399	Micro-flow nanocatalysis: synergic effect of TfOH@SPIONs and micro-flow technology as an efficient and robust catalytic system for the synthesis of plasticizers. RSC Advances, 2018, 8, 37835-37840.	3.6	1
400	Effect of Mixing Temperature on Characteristics of Thermoplastic Potato Starch Film. IOP Conference Series: Materials Science and Engineering, 2018, 374, 012083.	0.6	9
401	Formulation and characterization of bilayer films based on Brea gum and Pectin. Brazilian Journal of Food Technology, 2018, 21, .	0.8	11
403	Functionality and Properties of Bio-based Materials. , 2018, , 81-103.		14
404	Plasticizers Derived from Biomass Resources: A Short Review. Polymers, 2018, 10, 1303.	4.5	114
405	Opposing Effects of Side-Chain Flexibility and Hydrogen Bonding on the Thermal, Mechanical, and Rheological Properties of Supramolecularly Cross-Linked Polyesters. Macromolecules, 2018, 51, 9294-9305.	4.8	29
406	Synergistic Effect of Halloysite Nanotubes and Glycerol on the Physical Properties of Fish Gelatin Films. Polymers, 2018, 10, 1258.	4.5	11

#	Article	IF	CITATIONS
407	Use of Ginger Nanofibers for the Preparation of Cellulose Nanocomposites and Their Antimicrobial Activities. Fibers, 2018, 6, 79.	4.0	30
408	Effect of jackfruit rind-based cellulose (JR-CEL.) on physical and mechanical properties of the biodegradable glycerol/gelatine matrix film. AIP Conference Proceedings, 2018, , .	0.4	1
409	Interaction Phenomena Between Packaging and Product. , 2018, , 33-56.		2
410	Specialty Application of Functional Biopolymers. Polymers and Polymeric Composites, 2018, , 1-48.	0.6	O
411	The Effect of Natural Based Oil as Plasticizer towards Physics-Mechanical Properties of NR-SBR Blending for Solid Tyres. Journal of Physics: Conference Series, 2018, 1095, 012027.	0.4	9
412	Improved Sustainable Ionic Liquid Catalyzed Production of Symmetrical and Nonâ€Symmetrical Biological Wax Monoesters. European Journal of Lipid Science and Technology, 2019, 121, 1800303.	1.5	11
413	Biodegradable Composites Developed from PBAT/PLA Binary Blends and Silk Powder: Compatibilization and Performance Evaluation. ACS Omega, 2018, 3, 12412-12421.	3.5	57
414	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. Nature Medicine, 2018, 24, 1830-1836.	30.7	331
415	A strategy to prepare internally plasticized PVC using a castor oil based derivative. Korean Journal of Chemical Engineering, 2018, 35, 2296-2302.	2.7	13
416	Carboxymethyl cellulose from renewable rice stubble incorporated with Thai rice grass extract as a bioactive packaging film for green tea. Journal of Food Processing and Preservation, 2018, 42, e13762.	2.0	21
417	Effects of temperature, starch concentration, and plasticizer concentration on the physical properties of ulluco (Ullucus tuberosus Caldas)-based edible films. International Journal of Biological Macromolecules, 2018, 120, 1834-1845.	7.5	34
418	Bio-Based Polymers for 3D Printing of Bioscaffolds. Polymer Reviews, 2018, 58, 668-687.	10.9	67
419	Effect of Selected Commercial Plasticizers on Mechanical, Thermal, and Morphological Properties of Poly(3-hydroxybutyrate)/Poly(lactic acid)/Plasticizer Biodegradable Blends for Three-Dimensional (3D) Print. Materials, 2018, 11, 1893.	2.9	55
420	Properties of poly(vinyl alcohol) films as determined by thermal curing and addition of polyfunctional organic acids. Food Packaging and Shelf Life, 2018, 18, 95-100.	7.5	17
421	Natural Terpenes Used as Plasticizers for Poly(3-hydroxybutyrate). ACS Sustainable Chemistry and Engineering, 2018, 6, 16160-16168.	6.7	31
422	Effect of potassium hydroxide on rheological and thermo-mechanical properties of semi-refined carrageenan (SRC) films. Food Bioscience, 2018, 26, 104-112.	4.4	15
423	Blending and plasticising effects on the behaviour of poly(lactic acid)/poly($<$ i $>$ Î μ -caprolactone). Polymers and Polymer Composites, 2018, 26, 337-345.	1.9	9
424	Development of cholate conjugated hybrid polymeric micelles for FXR receptor mediated effective site-specific delivery of paclitaxel. New Journal of Chemistry, 2018, 42, 17021-17032.	2.8	22

#	Article	IF	CITATIONS
425	Antioxidant, Antimicrobial, and Fungicidal Properties of Chitosan Based Films (Review). Applied Biochemistry and Microbiology, 2018, 54, 449-458.	0.9	35
426	Influence of Moringa oleifera derivates in blends of PBAT/PLA with LDPE. Polimeros, 2018, 28, 309-318.	0.7	6
427	Biopolymers for Sensor and Electrical Applications. , 2018, , .		3
428	Preparation of ceramic ultrafiltration membrane using green synthesized CuO nanoparticles for chromium (VI) removal and optimization by response surface methodology. Journal of Cleaner Production, 2018, 203, 511-520.	9.3	58
429	Characterization of Semi-refined Carrageenan-Based Film for Primary Food Packaging Purposes. Journal of Polymers and the Environment, 2018, 26, 3754-3761.	5.0	22
430	Phase separation of plasticizers in thermally aggregated proteinâ€based thermoplastics. Advances in Polymer Technology, 2018, 37, 2922-2935.	1.7	4
431	Evaluation of a gelatin-based adhesive for historic paintings that incorporates citronella oil as an eco-friendly biocide. Journal of Adhesion Science and Technology, 2018, 32, 2320-2349.	2.6	8
432	Fabrication of Functional Electrospun Nanostructures for Food Applications. , 2018, , 109-146.		6
433	Biopolymers for Food Design: Consumer-Friendly Natural Ingredients. , 2018, , 1-32.		13
434	Effect of nature and extent of functional group modification on properties of thermosets from methacrylated epoxidized sucrose soyate. Reactive and Functional Polymers, 2018, 128, 29-39.	4.1	9
435	Synthesis and Characterization of Diethyl Citrate and Phase Equilibria in Mixtures with Ethanol and Water. Journal of Chemical & Engineering Data, 2018, 63, 2644-2652.	1.9	2
436	A Review of Plastics Use in Winemaking: HACCP Considerations. American Journal of Enology and Viticulture, 2018, 69, 307-320.	1.7	10
437	Characteristic of nanoparticle-chitosan system: solution and thin film study. IOP Conference Series: Earth and Environmental Science, 2018, 160, 012001.	0.3	1
438	Red-light-emitting polymer composite based on PVDF membranes and Europium phosphor using Buriti Oil as plasticizer. Materials Chemistry and Physics, 2018, 217, 160-167.	4.0	13
439	The effect of plasticizers on the functional properties of biodegradable gelatin-based film: A review. Food Bioscience, 2018, 24, 111-119.	4.4	152
440	Effect of different plasticizers on tensile properties of PVA/sago starch system before and after weathering exposure. AIP Conference Proceedings, 2018, , .	0.4	5
441	Development of Dermal Films Containing Miconazole Nitrate. Molecules, 2018, 23, 1640.	3.8	8
442	Interaction of Mannitol and Sucrose with Gellan Gum in Freeze-Dried Gel Systems. Food Biophysics, 2018, 13, 304-315.	3.0	9

#	Article	IF	CITATIONS
443	Functional properties of soy protein isolate edible films as affected by rapeseed oil concentration. Food Hydrocolloids, 2018, 85, 233-241.	10.7	99
444	Physicochemical properties of edible alginate film from Malaysian Sargassum polycystum C. Agardh. Sustainable Chemistry and Pharmacy, 2018, 9, 87-94.	3.3	16
445	Sustainable Packaging., 2018,, 275-307.		16
446	Bio-Based Nanocomposites for Food Packaging and Their Effect in Food Quality and Safety. , 2018, , 271-306.		16
447	Chitosan–Cellulose Multifunctional Hydrogel Beads: Design, Characterization and Evaluation of Cytocompatibility with Breast Adenocarcinoma and Osteoblast Cells. Bioengineering, 2018, 5, 3.	3.5	30
448	Influence of Codium tomentosum Extract in the Properties of Alginate and Chitosan Edible Films. Foods, 2018, 7, 53.	4.3	37
449	Effect of drug incorporation technique and polymer combination on the performance of biopolymeric antifungal buccal films. International Journal of Pharmaceutics, 2018, 548, 431-442.	5.2	18
450	Conductive composites of tapioca based bioplastic and electrochemical-mechanical liquid exfoliation (emle) graphene. IOP Conference Series: Materials Science and Engineering, 2018, 345, 012026.	0.6	5
451	A Miniaturized Extruder to Prototype Amorphous Solid Dispersions: Selection of Plasticizers for Hot Melt Extrusion. Pharmaceutics, 2018, 10, 58.	4.5	9
452	Thermal Study of Polyols for the Technological Application as Plasticizers in Food Industry. Polymers, 2018, 10, 467.	4.5	12
453	Production of glutaric acid from 5-aminovaleric acid using Escherichia coli whole cell bio-catalyst overexpressing GabTD from Bacillus subtilis. Enzyme and Microbial Technology, 2018, 118, 57-65.	3.2	27
454	Hydrogen bonding impact on chitosan plasticization. Carbohydrate Polymers, 2018, 200, 115-121.	10.2	78
455	Thermoplastic cellulose acetate oleate films with high barrier properties and ductile behaviour. Chemical Engineering Journal, 2018, 348, 840-849.	12.7	55
456	Phase Equilibrium Behavior in Mixtures Containing Tributyl Citrate, Citric Acid, Butan-1-ol, and Water. Journal of Chemical & Data, 2018, 63, 3252-3262.	1.9	7
457	The role of water in plasticizing thermally aggregated proteinâ€based thermoplastics. Journal of Applied Polymer Science, 2018, 135, 46746.	2.6	2
458	Water-in-Acid Gel Polymer Electrolyte Realized through a Phosphoric Acid-Enriched Polyelectrolyte Matrix toward Solid-State Supercapacitors. ACS Sustainable Chemistry and Engineering, 2018, 6, 12630-12640.	6.7	17
459	Barrier and physical properties of arrowroot starch-carrageenan based biofilms. Journal of Bio-science, 0, 25, 45-56.	0.1	3
460	Recent Trends on Nano-biocomposite Polymers for Food Packaging. , 2018, , 101-130.		12

#	Article	IF	CITATIONS
461	Effect of plant extracts on the techno-functional properties of biodegradable packaging films. Trends in Food Science and Technology, 2018, 80, 141-154.	15.1	153
462	Ionic Liquid Platform for Spinning Composite Chitin–Poly(lactic acid) Fibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 10241-10251.	6.7	39
463	Effect of plasticizers on physicochemical properties of cellulose nanocrystals filled alginate bionanocomposite films. Advances in Polymer Technology, 2018, 37, 3171-3185.	1.7	27
464	Therapeutic applications and pharmacoeconomics of microneedle technology. Expert Review of Pharmacoeconomics and Outcomes Research, 2018, 18, 359-369.	1.4	26
465	Effect of plasticizers on the mechanical and thermomechanical properties of cellulose-based biocomposite films. Industrial Crops and Products, 2018, 122, 513-521.	5.2	50
466	Use of sunflower seed fried oil as an ecofriendly plasticizer for starch and application of this thermoplastic starch as a filler for PLA. Industrial Crops and Products, 2018, 122, 545-552.	5.2	45
467	Enhanced mechanical flexibility and performance of sodium alginate polymer electrolyte bioâ€membrane for application in direct methanol fuel cell. Journal of Applied Polymer Science, 2018, 135, 46666.	2.6	46
468	Effect of ultra-violet cross-linking on the properties of boric acid and glycerol co-plasticized thermoplastic starch films. Food Packaging and Shelf Life, 2019, 19, 184-192.	7.5	21
469	Ternary nanocomposites based on plasticized poly(3-hydroxybutyrate) and nanocellulose. Polymer Bulletin, 2019, 76, 967-988.	3.3	18
470	Functional properties of amaranth, quinoa and chia proteins and the biological activities of their hydrolyzates. Food Research International, 2019, 116, 419-429.	6.2	45
471	Development and properties of new chitosan-based films plasticized with spermidine and/or glycerol. Food Hydrocolloids, 2019, 87, 245-252.	10.7	49
472	Preparation, Characterization, and Biodegradability Assessment of Maize Starchâ€(PVOH)/Clay Nanocomposite Films. Starch/Staerke, 2019, 71, 1800076.	2.1	10
473	Coupling of PLA and bleached softwood kraft pulp (BSKP) for enhanced properties of biocomposites. Journal of Thermoplastic Composite Materials, 2019, 32, 328-341.	4.2	11
474	Gelatin/Gelatinized Sago Starch Biomembranes as a Drug Delivery System Using Rubber Latex as Plasticizer. Journal of Polymers and the Environment, 2019, 27, 2380-2394.	5.0	13
475	A Potential Application of Mango (Mangifera indica L. cv Manila) Peel Powder to Increase the Total Phenolic Compounds and Antioxidant Capacity of Edible Films and Coatings. Food and Bioprocess Technology, 2019, 12, 1584-1592.	4.7	43
476	Use of mechanically ground lignocellulosic native fines (LF) in the all-cellulosic composite filaments: fines properties and plasticizers. Cellulose, 2019, 26, 1041-1054.	4.9	0
477	Reclaimed Rubber in Situ Grafted with Soybean Oil as a Novel Green Reactive Plasticizer in SBR/Silica Compounds. ACS Sustainable Chemistry and Engineering, 2019, 7, 14991-15001.	6.7	29
478	Constrained Mixture Design to Optimize Formulation and Performance of Foams Based on Cassava Starch and Peanut Skin. Journal of Polymers and the Environment, 2019, 27, 2224-2238.	5.0	17

#	Article	IF	CITATIONS
479	Crosslinked chitosan/poly(vinyl alcohol)-based polyelectrolytes for proton exchange membranes. Reactive and Functional Polymers, 2019, 142, 213-222.	4.1	26
480	The Use of Biopolymers in Food Packaging. Materials Horizons, 2019, , 137-158.	0.6	23
481	Use of molecular interactions and mesoscopic scale transitions to modulate protein-polysaccharide structures. Advances in Colloid and Interface Science, 2019, 271, 101987.	14.7	62
482	Polylactide (PLA) and Its Blends with Poly(butylene succinate) (PBS): A Brief Review. Polymers, 2019, 11, 1193.	4.5	219
483	Development of film-forming gel containing nanoparticles for transdermal drug delivery. Nanotechnology, 2019, 30, 415102.	2.6	22
484	Properties of biobased packaging material. , 2019, , 25-111.		2
485	Nanofibrous Scaffolds for Tissue Engineering Application. , 2019, , 665-691.		0
486	Green Biopolymers and their Nanocomposites. Materials Horizons, 2019, , .	0.6	11
487	Synthesis, characterization, and antimicrobial efficacy of composite films from guar gum/sago starch/whey protein isolate loaded with carvacrol, citral and carvacrol-citral mixture. Journal of Materials Science: Materials in Medicine, 2019, 30, 117.	3.6	24
488	Effect of coating with novel bio nanocomposites of cationic starch/cellulose nanocrystals on the fundamental properties of the packaging paper. Polymer Testing, 2019, 80, 106080.	4.8	36
489	Barriers and challenges to plastics valorisation in the context of a circular economy: Case studies from Italy. Journal of Cleaner Production, 2019, 241, 118149.	9.3	132
490	Tough and Functional Cross-linked Bioplastics from Sheep Wool Keratin. Scientific Reports, 2019, 9, 14810.	3.3	44
491	Cellulose Nanofibril (CNF) Films and Xylan from Hot Water Extracted Birch Kraft Pulps. Applied Sciences (Switzerland), 2019, 9, 3436.	2.5	17
492	Effect of PEG as a plasticizer on the electrical and optical properties of polymer blend electrolyte MC-CH-LiBF4 based films. Results in Physics, 2019, 15, 102735.	4.1	50
493	Fractionation of glycerol acetates with supercritical CO2. Journal of Supercritical Fluids, 2019, 153, 104575.	3.2	4
494	Optical, mechanical, and moisture sorption properties of whey protein edible films. Journal of Food Process Engineering, 2019, 42, e13245.	2.9	31
495	Diversity matters: Effects of density compensation in pollination service during rainfall shift. Ecology and Evolution, 2019, 9, 9701-9711.	1.9	12
497	Effect of glycerol on the mechanical and temperature-sensing properties of pectin films. Applied Physics Letters, 2019, 115, .	3.3	11

#	Article	IF	CITATIONS
499	Jojoba Oil (<i>Simmondsia Chinensis</i>) as a Natural Plasticizer for Ethylene Propylene Diene Monomer Elastomers. Industrial & Engineering Chemistry Research, 2019, 58, 20147-20153.	3.7	8
500	Antifungal effects of chitosan films incorporated with essential oils and control of fungal contamination in peanut kernels. Journal of Food Processing and Preservation, 2019, 43, e14235.	2.0	21
501	Biodegradation Characteristics of <i>Tacca leontopetaloides</i> Thermoplastic Films under Controlled Composting Conditions. Key Engineering Materials, 0, 797, 289-295.	0.4	0
502	Characterization of Composite Edible Films Based on Pectin/Alginate/Whey Protein Concentrate. Materials, 2019, 12, 2454.	2.9	109
503	Characterization of the Scattering and Absorption of Colored Zein Colloids in Optically Dense Dispersions. Langmuir, 2019, 35, 12091-12099.	3.5	7
504	An Update of Moisture Barrier Coating for Drug Delivery. Pharmaceutics, 2019, 11, 436.	4.5	24
505	An Environment-Friendly Palm Fatty Acid-Based Polymeric Surfactants for Coating Applications: Physicochemical, Surface Tension and Low-Foaming Properties. Journal of Polymers and the Environment, 2019, 27, 2707-2719.	5.0	4
506	Combined application of Trichoderma harzianum SH2303 and difenoconazole-propiconazolein controlling Southern corn leaf blight disease caused by Cochliobolus heterostrophus in maize. Journal of Integrative Agriculture, 2019, 18, 2063-2071.	3.5	27
507	Effectiveness of triacetin and triethyl citrate as plasticizer in polyvinyl alcohol. Materials Today: Proceedings, 2019, 17, 560-567.	1.8	6
508	The Plastics Sunset and the Bio-Plastics Sunrise. Coatings, 2019, 9, 526.	2.6	36
509	Water kefir grains as an innovative source of materials: Study of plasticiser content on film properties. European Polymer Journal, 2019, 120, 109234.	5.4	29
510	Plasticizer loss in a complex system (polyamide 12): Kinetics, prediction and its effects on mechanical properties. Polymer Degradation and Stability, 2019, 169, 108985.	5.8	8
511	Preparation and characterization of pectin fraction from pineapple peel as a natural plasticizer and material for biopolymer film. Food and Bioproducts Processing, 2019, 118, 198-206.	3.6	59
512	Characterization of poly (lactic acid) / poly (ethylene) glycol blends prepared for melt drawn spinning process. Materials Today: Proceedings, 2019, 17, 889-897.	1.8	3
513	Mechanical Properties of Pectin/Eudragit Blend Films. Key Engineering Materials, 2019, 819, 3-8.	0.4	0
514	Polymeric nanoparticles-based multi-functional coatings on NiTi alloy with nickel ion release control, cytocompatibility, and antibacterial performance. New Journal of Chemistry, 2019, 43, 1551-1561.	2.8	10
515	Poly(Ionic Liquid) Nanoparticles Selectively Disrupt Biomembranes. Advanced Science, 2019, 6, 1801602.	11.2	14
516	Application of edible coatings on fresh and minimally processed fruits: a review. Nutrition and Food Science, 2019, 49, 713-738.	0.9	18

#	Article	IF	CITATIONS
517	Cellulose Nanocrystals in Food Packaging. , 2019, , .		3
518	Drying of pickering emulsions in a viscoelastic network of cellulose microfibrils. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 568, 271-276.	4.7	13
519	Organic–inorganic collagen/iotaâ€carrageenan/hydroxyapatite hybrid membranes are bioactive materials for bone regeneration. Journal of Applied Polymer Science, 2019, 136, 48004.	2.6	13
520	Overview of Proteinâ€Based Biopolymers for Biomedical Application. Macromolecular Chemistry and Physics, 2019, 220, 1900126.	2.2	50
521	Development, influencing parameters and interactions of bioplasticizers: An environmentally friendlier alternative to petro industry-based sources. Science of the Total Environment, 2019, 682, 394-404.	8.0	24
522	Egg quality and safety with an overview of edible coating application for egg preservation. Food Chemistry, 2019, 296, 29-39.	8.2	73
523	Mechanisms of action of novel ingredients used in edible films to preserve microbial quality and oxidative stability in sausages - A review. Trends in Food Science and Technology, 2019, 89, 100-109.	15.1	28
524	A novel approach to determine optimal protein texturization conditions - A critical moisture level with increased effect of temperature on viscosity reduction in the rubbery state. Journal of Food Engineering, 2019, 261, 66-75.	5.2	7
525	Physiochemical characterization of soybean oil derived silanized factice and its interaction with styrene butadiene rubber/silica composite. Polymer Testing, 2019, 78, 105933.	4.8	13
526	Poly(furfuryl alcohol)-Polycaprolactone Blends. Polymers, 2019, 11, 1069.	4.5	23
527	Composite Films with UV-Barrier Properties of Bacterial Cellulose with Glycerol and Poly(vinyl) Tj ETQq0 0 0 rgBT	/Oyerlock	10 Tf 50 342
528	Fabrication of super-tough ternary blends by melt compounding of poly(lactic acid) with poly(butylene succinate) and ethylene-methyl acrylate-glycidyl methacrylate. Composites Part B: Engineering, 2019, 172, 743-749.	12.0	62
529	Polyelectrolyte vs Polyampholyte Behavior of Composite Chitosan/Gelatin Films. ACS Omega, 2019, 4, 8795-8803.	3.5	10
530	Edible films made from blends of gelatin and polysaccharide-based emulsifiers - A comparative study. Food Hydrocolloids, 2019, 96, 555-567.	10.7	55
531	Towards the development of highly transparent, flexible and water-resistant bio-based nanopapers: tailoring physico-mechanical properties. Cellulose, 2019, 26, 6917-6932.	4.9	12
532	Viscoelastic behaviour of cellulose acetate/triacetin blends by rheology in the melt state. Carbohydrate Polymers, 2019, 222, 114973.	10.2	15
533	Biopolymer films for food industries: properties, applications, and future aspects based on chitosan. Reviews in Agricultural Science, 2019, 7, 59-67.	2.7	26
534	An Overview of Surfaceâ€Functionalized Magnetic Nanoparticles: Preparation and Application for Wastewater Treatment. ChemistrySelect, 2019, 4, 6805-6811.	1.5	38

#	ARTICLE	IF	CITATIONS
535	Recent Developments of Biobased Plasticizers and Their Effect on Mechanical and Thermal Properties of Poly(vinyl chloride): A Review. Industrial & Engineering Chemistry Research, 2019, 58, 11659-11672.	3.7	81
536	Cassava starch/carboxymethylcellulose biocomposite film for food paper packaging incorporated with turmeric oil. IOP Conference Series: Materials Science and Engineering, 0, 507, 012008.	0.6	4
537	Glycerol-plasticized bacterial nanocellulose-based composites with enhanced flexibility and liquid sorption capacity. Cellulose, 2019, 26, 5409-5426.	4.9	42
538	Development of a Spherical Model with a 3D Microchannel: An Application to Glaucoma Surgery. Micromachines, 2019, 10, 297.	2.9	4
539	Physico-chemical and antilisterial properties of nisin-incorporated chitosan/carboxymethyl chitosan films. Carbohydrate Polymers, 2019, 219, 334-343.	10.2	106
540	Synthesis of chitosan derivatives with organoselenium and organosulfur compounds: Characterization, antimicrobial properties and application as biomaterials. Carbohydrate Polymers, 2019, 219, 240-250.	10.2	29
541	Effect of the Addition of Natural Rice Bran Oil on the Thermal, Mechanical, Morphological and Viscoelastic Properties of Poly(Lactic Acid). Sustainability, 2019, 11, 2783.	3.2	5
542	Optimized silk fibroin piezoresistive nanocomposites for pressure sensing applications based on natural polymers. Nanoscale Advances, 2019, 1, 2284-2292.	4.6	29
543	Plasticiser loss from plastic or rubber products through diffusion and evaporation. Npj Materials Degradation, 2019, 3, .	5.8	59
544	Plantago major seed gum based biodegradable films: Effects of various plant oils on microstructure and physicochemical properties of emulsified films. Polymer Testing, 2019, 77, 105868.	4.8	49
545	Physicochemical and antioxidant properties of gelatin-based films containing oily tomato extract (<i>Solanum lycopersicum</i> L.). CYTA - Journal of Food, 2019, 17, 142-150.	1.9	21
546	Effect of glycerol concentration on mechanical characteristics of biodegradable plastic from rice straw cellulose. AIP Conference Proceedings, 2019, , .	0.4	2
547	Hydrophobic and Bulk Polymerizable Protein-Based Elastomers Compatibilized with Surfactants. ACS Sustainable Chemistry and Engineering, 2019, 7, 9103-9111.	6.7	6
548	Can the maximum volume fraction ensure optimum reinforcement in shortâ€fiber composites?. Journal of Applied Polymer Science, 2019, 136, 47821.	2.6	6
549	Effect of compatibilizer addition in Spirulina platensis based bioplastic production. AIP Conference Proceedings, 2019, , .	0.4	19
550	Dibutyl phthalate-induced activation of ROS and ERK1/2 causes hepatic and renal damage in Kunming mice. Human and Experimental Toxicology, 2019, 38, 938-950.	2.2	24
551	Effect of Different Polyalcohols as Plasticizers on the Functional Properties of Squid Protein Film (Dosidicus Gigas). Coatings, 2019, 9, 77.	2.6	33
552	Rheological and Mechanical Investigation into the Effect of Different Molecular Weight Poly(ethylene glycol)s on Polycaprolactone-Ciprofloxacin Filaments. ACS Omega, 2019, 4, 5412-5423.	3.5	20

#	Article	IF	CITATIONS
553	Yerba mate extract in active starch films: Mechanical and antioxidant properties. Journal of Food Processing and Preservation, 2019, 43, e13897.	2.0	17
554	The Effect of Glycerol, Sugar, and Maleic Anhydride on Pectin-Cellulose Thin Films Prepared from Orange Waste. Polymers, 2019, 11, 392.	4.5	19
555	Rice starch thin films as a potential buccal delivery system: Effect of plasticiser and drug loading on drug release profile. International Journal of Pharmaceutics, 2019, 562, 203-211.	5.2	30
556	Semiâ€refined carrageenan film incorporated with αâ€tocopherol: Application in food model. Journal of Food Processing and Preservation, 2019, 43, e13937.	2.0	12
557	Compatibility study of support materials within the enzyme-mediated addressing of proteins. Journal of Coatings Technology Research, 2019, 16, 963-969.	2.5	0
558	Preparation and properties of microfibrillated chitin/gelatin composites. International Journal of Biological Macromolecules, 2019, 130, 715-719.	7.5	26
559	Compressive strengths of PEG gels with glycerol and bioglass particles. Journal of Materials Research, 2019, 34, 1341-1352.	2.6	2
560	Transparent and Robust All-Cellulose Nanocomposite Packaging Materials Prepared in a Mixture of Trifluoroacetic Acid and Trifluoroacetic Anhydride. Nanomaterials, 2019, 9, 368.	4.1	30
561	Preparation of all-cellulose composites with optical transparency using the banana pseudostem as a raw material. Cellulose, 2019, 26, 3777-3786.	4.9	10
562	Mechanically robust and flexible silk protein/polysaccharide composite sponges for wound dressing. Carbohydrate Polymers, 2019, 216, 17-24.	10.2	75
563	Preparation and characterization of Xyloglucan films extracted from Tamarindus indica seeds for packaging cut-up â€~Sunrise Solo' papaya. International Journal of Biological Macromolecules, 2019, 132, 1163-1175.	7.5	21
564	Influence of natamycin loading on the performance of transglutaminase―nduced crosslinked gelatin composite films. International Journal of Food Science and Technology, 2019, 54, 2425-2436.	2.7	10
565	Effect of Natural Glyceryl Tributyrate as Plasticizer and Compatibilizer on the Performance of Bio-Based Polylactic Acid/poly(3-hydroxybutyrate) Blends. Journal of Polymers and the Environment, 2019, 27, 1429-1438.	5.0	22
566	The Effect of Polyurethane Glycolysate on the Structure and Properties of Natural Rubber/Carbon Black Composites. Journal of Polymers and the Environment, 2019, 27, 1367-1378.	5.0	15
567	Rapid feasibility assessment for the use of wiped-film evaporation in the purification of thermally labile products. Chemical Engineering Research and Design, 2019, 146, 141-153.	5.6	3
568	The Effect of Sorbitol Addition on the Characteristic of Carrageenan Edible Film. IOP Conference Series: Earth and Environmental Science, 0, 236, 012129.	0.3	10
569	Fast dynamics of a hydrogen-bonding glass forming liquid: Chemical exchange-induced spectral diffusion in 2D IR spectroscopy. Journal of Chemical Physics, 2019, 150, 124507.	3.0	6
570	3D printed chitosan dressing crosslinked with genipin for potential healing of chronic wounds. International Journal of Pharmaceutics, 2019, 560, 406-415.	5.2	93

#	Article	IF	CITATIONS
571	Development of Bio-Based Films and 3D Objects from Apple Pomace. Polymers, 2019, 11, 289.	4.5	47
572	Egg White Protein Film Production Through Extrusion and Calendering Processes and its Suitability for Food Packaging Applications. Food and Bioprocess Technology, 2019, 12, 714-727.	4.7	25
573	Fabrication and characterisation of metal-doped pectin films. Food Hydrocolloids, 2019, 92, 259-266.	10.7	16
574	Whey protein-kefiran films as driver of probiotics to the gut. LWT - Food Science and Technology, 2019, 105, 321-328.	5.2	37
575	Additives in proton exchange membranes for low- and high-temperature fuel cell applications: A review. International Journal of Hydrogen Energy, 2019, 44, 6116-6135.	7.1	207
576	Protein-Based Active Film as Antimicrobial Food Packaging: A Review. , 2019, , .		4
577	Granular fermentation enables high rate caproic acid production from solid-free thin stillage. Green Chemistry, 2019, 21, 1330-1339.	9.0	60
578	Thermal annealed silk fibroin membranes for periodontal guided tissue regeneration. Journal of Materials Science: Materials in Medicine, 2019, 30, 27.	3.6	16
579	Optimization of Starch Composite Edible Coating Formulation on Fresh-Cut "Fuji―Apple through Surface Tension, Wettability and FTIR Spectroscopy. IOP Conference Series: Materials Science and Engineering, 2019, 507, 012009.	0.6	3
580	Morphology and biodegradability of microcrystalline cellulose / chitosan films. IOP Conference Series: Materials Science and Engineering, 2019, 701, 012053.	0.6	1
581	Preparation and Characterization of Electrospun Pectin-Based Films and Their Application in Sustainable Aroma Barrier Multilayer Packaging. Applied Sciences (Switzerland), 2019, 9, 5136.	2.5	35
582	Effect of Plasticizer on Microstructure and Dynamic Mechanical Performance of Anisotropic Magnetorheological Elastomers. IOP Conference Series: Materials Science and Engineering, 2019, 548, 012007.	0.6	0
583	Characterization and release kinetic of crosslinked chitosan film incorporated with $\hat{l}\pm$ -tocopherol. Food Packaging and Shelf Life, 2019, 22, 100415.	7.5	17
584	The modification of gelatin films: Based on various crossâ€inking mechanism of glutaraldehyde at acidic and alkaline conditions. Food Science and Nutrition, 2019, 7, 4140-4146.	3.4	41
585	The effect of kaffir lime (Citrus hystrix DC) essential oil on bioplastic derived from cassava peel waste. Journal of Physics: Conference Series, 2019, 1374, 012015.	0.4	5
586	Evaluation of Lipophilic Properties of Thermoplastic Granule in Formulation of Sustained Release Matrix in Solid Dosage Forms. Pharmaceutical Chemistry Journal, 2019, 53, 660-667.	0.8	0
588	Application of Protein-Based Films and Coatings for Food Packaging: A Review. Polymers, 2019, 11, 2039.	4.5	239
589	Polymer Particles with a Low Glass Transition Temperature Containing Thermoset Resin Enable Powder Coatings at Room Temperature. Industrial & Engineering Chemistry Research, 2019, 58, 908-916.	3.7	18

#	Article	IF	CITATIONS
590	Chitosan-hydroxypropyl methylcellulose tioconazole films: A promising alternative dosage form for the treatment of vaginal candidiasis. International Journal of Pharmaceutics, 2019, 556, 181-191.	5.2	50
591	Application of Biodegradable Polymers in Food Packaging Industry: A Comprehensive Review. Journal of Packaging Technology and Research, 2019, 3, 77-96.	1.5	272
592	Residue levels and spatial distribution of phthalate acid esters in water and sediment from urban lakes of Guangzhou, China. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 127-135.	1.7	12
593	Novel composite films from regenerated cellulose-glycerol-polyvinyl alcohol: Mechanical and barrier properties. Food Hydrocolloids, 2019, 89, 481-491.	10.7	45
594	Polyhydroxyalkanoates as biomaterial for electrospun scaffolds. International Journal of Biological Macromolecules, 2019, 124, 102-110.	7. 5	70
595	A Novel Environmentally Friendly Biopolymer Product from Gelatin and Natural Rubber: Effect of Bagasse Fiber and Urea. Journal of Polymers and the Environment, 2019, 27, 225-233.	5.0	5
596	Immobilized lipases in sericin–dimethylolurea films as biocatalysts in esterification. Chemical Papers, 2019, 73, 645-652.	2.2	2
597	Ferulic acid derivatives used as biobased powders for a convenient plasticization of polylactic acid in continuous hot-melt process. European Polymer Journal, 2019, 110, 293-300.	5.4	15
598	Superhydrophobic Coatings from Beeswaxâ€inâ€Water Emulsions with Latent Heat Storage Capability. Advanced Materials Interfaces, 2019, 6, 1801782.	3.7	40
599	Recent advances in additiveâ€enhanced polymer electrolyte membrane properties in fuel cell applications: An overview. International Journal of Energy Research, 2019, 43, 2756-2794.	4.5	116
600	Dried Ca-alginate films: Effects of glycerol, relative humidity, soy fibers, and carrageenan. LWT - Food Science and Technology, 2019, 103, 260-265.	5.2	18
601	Anthocyanins from jussara (Euterpe edulis Martius) extract carried by calcium alginate beads pre-prepared using ionic gelation. Powder Technology, 2019, 345, 283-291.	4.2	67
602	Sericin-chitosan doped maleate gellan gum nanocomposites for effective cell damage in Mycobacterium tuberculosis. International Journal of Biological Macromolecules, 2019, 122, 174-184.	7. 5	46
603	Starch-Based Edible Films and Coatings. , 2019, , 359-420.		33
604	Gas barrier and wetting properties of whey protein isolateâ€based emulsion films. Polymer Engineering and Science, 2019, 59, E375.	3.1	33
605	Biocatalytic Degradation of Parabens Mediated by Cell Surface Displayed Cutinase. Environmental Science & Environmental Scienc	10.0	24
606	Mechanical properties of poly(lactid acid) plasticized by cardanol derivatives. Polymer Degradation and Stability, 2019, 159, 199-204.	5.8	25
607	Epoxidized castor oilâ€based diglycidylâ€phthalate plasticizer: Synthesis and thermal stabilizing effects on poly(vinyl chloride). Journal of Applied Polymer Science, 2019, 136, 47142.	2.6	30

#	Article	IF	CITATIONS
608	Biodegradable pressure sensitive adhesives produced from vital wheat gluten: Effect of glycerol as plasticizer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 560, 42-49.	4.7	19
609	Mechanical profiles and topographical properties of films made from alkaline extracted arabinoxylans from wheat bran, maize bran, or dried distillers grain. Food Hydrocolloids, 2019, 86, 78-86.	10.7	31
610	<i>Moringa oleifera</i> oil influence on biodegradation behaviour of polymers. Environmental Technology (United Kingdom), 2020, 41, 1245-1255.	2.2	0
611	Recent advances in protein derived bionanocomposites for food packaging applications. Critical Reviews in Food Science and Nutrition, 2020, 60, 406-434.	10.3	143
612	Green Composites From Sustainable Cellulose Nanofibrils. , 2020, , 81-94.		7
613	Development of polylactic acid (PLA) bio-composite films reinforced with bacterial cellulose nanocrystals (BCNC) without any surface modification. Journal of Dispersion Science and Technology, 2020, 41, 1488-1495.	2.4	21
614	Bioâ€processing aids based on jatropha seed oil and its epoxidized derivatives in carbon blackâ€reinforced natural rubber. Journal of Vinyl and Additive Technology, 2020, 26, 62-76.	3.4	7
615	Food Waste for Sustainable Packaging Materials. , 2020, , 322-330.		3
616	Determination of serotonin by using a thin film containing graphite, nanodiamonds and gold nanoparticles anchored in casein. Measurement: Journal of the International Measurement Confederation, 2020, 149, 106979.	5.0	29
617	Synthesis and characterization of a graft-modified copolymer for enhanced oil recovery. Journal of Petroleum Science and Engineering, 2020, 184, 106473.	4.2	20
618	Characterization of mechanical and barrier properties of bacterial cellulose, glycerol and polyvinyl alcohol (PVOH) composite films with eco-friendly UV-protective properties. Food Hydrocolloids, 2020, 99, 105323.	10.7	42
619	Evaluation of the thermal stabilization behavior of hydrotalcite against organic stabilizers for plasticized PVC films. Polymer Bulletin, 2020, 77, 4805-4831.	3.3	9
620	Modeling, analysis and multi-objective optimization of an industrial batch process for the production of tributyl citrate. Computers and Chemical Engineering, 2020, 132, 106603.	3.8	18
621	Surfactant-assisted incorporation of rosmarinic acid into electrosprayed poly(lactic-co-glycolic) Tj ETQq1 1 0.78 2020, 81, 106180.	4314 rgBT 4.8	/Overlock 10 11
622	Response surface methodology (RSM) of chicken skin gelatin based composite films with rice starch and curcumin incorporation. Polymer Testing, 2020, 81, 106161.	4.8	43
623	Concepts and classification of compatibilization processes. , 2020, , 31-56.		5
624	Modifications of protein-based films using cold plasma. International Journal of Biological Macromolecules, 2020, 142, 769-777.	7.5	65
625	Rosinâ€derived poly(vinyl chloride) plasticizer: Synthesis, structure, and properties. Journal of Vinyl and Additive Technology, 2020, 26, 180-186.	3.4	9

#	Article	IF	CITATIONS
626	Synergistic effect of chitosan and halloysite nanotubes on improving agar film properties. Food Hydrocolloids, 2020, 101, 105471.	10.7	37
627	Coating with chitosan-based edible films for mechanical/biological protection of strawberries. International Journal of Biological Macromolecules, 2020, 151, 1004-1011.	7.5	91
628	Preparation and characterization of compatibilized composites of poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 2020, 122, 109369.	Tf 50 667 5.4	' Td (adipate 17
629	An investigation of the role of fabrication process in the physicochemical properties of \hat{l}^2 -carrageenan-based films incorporated with Zataria multiflora extract and nanoclay. Food Packaging and Shelf Life, 2020, 23, 100435.	7.5	26
630	Chemical and physical modifications of starch for renewable polymeric materials. Materials Today Sustainability, 2020, 7-8, 100028.	4.1	109
631	Canola oil/candelilla wax oleogel improves texture, retards staling and reduces <i>in vitro</i> starch digestibility of maize tortillas. Journal of the Science of Food and Agriculture, 2020, 100, 1238-1245.	3.5	15
632	Performance Evaluation and Biodegradation Study of Polyvinyl Chloride Films with Castor Oilâ€based Plasticizer. JAOCS, Journal of the American Oil Chemists' Society, 2020, 97, 187-199.	1.9	16
633	Assessment of Traditional Plasticizers. , 2020, , 1-11.		3
634	Classification of Plasticizers. , 2020, , 13-44.		2
635	Influence of matrix viscosity on the dynamic mechanical performance of magnetorheological elastomers. Journal of Applied Polymer Science, 2020, 137, 48492.	2.6	10
636	Enhancing the Thermal, Mechanical and Swelling Properties of PVA/Starch Nanocomposite Membranes Incorporating g-C3N4. Journal of Polymers and the Environment, 2020, 28, 100-115.	5.0	37
637	Fabrication of κâ€carrageenan and whey protein isolateâ€based films reinforced with nanocellulose: optimization via RSM. Journal of Applied Polymer Science, 2020, 137, 48902.	2.6	2
638	Lignin as Alternative Reinforcing Filler in the Rubber Industry: A Review. Frontiers in Materials, 2020, 6, .	2.4	60
639	Room-temperature dissolution and chemical modification of cellulose in aqueous tetraethylammonium hydroxide–carbamide solutions. Cellulose, 2020, 27, 1933-1950.	4.9	34
640	Thermo-mechanical properties and creep modelling of wine lees filled Polyamide 11 (PA11) and Polybutylene succinate (PBS) bio-composites. Composites Science and Technology, 2020, 188, 107974.	7.8	44
641	Recent Advances in the Preparation and Characterization of Intermediately to Highly Esterified and Etherified Starches: A Review. Starch/Staerke, 2020, 72, 1900238.	2.1	18
642	Furan-2,5- and Furan-2,3-dicarboxylate Esters Derived from Marine Biomass as Plasticizers for Poly(vinyl chloride). ACS Omega, 2020, 5, 197-206.	3.5	13
643	A perspective approach on the amine reactivity and the hydrogen bonds effect on epoxy-amine systems. European Polymer Journal, 2020, 123, 109460.	5.4	61

#	Article	IF	CITATIONS
644	Physical and chemical modifications of poly(vinyl chloride) materials to prevent plasticizer migration - Still on the run. Reactive and Functional Polymers, 2020, 147, 104458.	4.1	77
645	Complete waste recycling strategies for improving the accessibility of rice protein films. Green Chemistry, 2020, 22, 490-503.	9.0	26
646	Effect of the Addition of Citric Acid and Whey Protein Isolate in Canna indica L. Starch Films Obtained by Solvent Casting. Journal of Polymers and the Environment, 2020, 28, 871-883.	5.0	11
647	Preparation of High-Elongation and High-Toughness Poly(l-lactide) Using Multi-Arm Methyl-Î ² -Cyclodextrin-Poly(l-lactide). Macromolecular Research, 2020, 28, 257-265.	2.4	2
648	Influence of Green Tea and Basil Extracts on Cassava Starch Based Films as Assessed by Thermal Degradation, Crystalline Structure, and Mechanical Properties. Starch/Staerke, 2020, 72, 1900155.	2.1	13
649	A review on the use of chelating agents as an alternative to promote photo-Fenton at neutral pH: Current trends, knowledge gap and future studies. Science of the Total Environment, 2020, 710, 134872.	8.0	120
650	Enhancing the properties of gelatin–chitosan bionanocomposite films by incorporation of silica nanoparticles. Journal of Food Process Engineering, 2020, 43, e13329.	2.9	22
651	Cytocompatible, thermostable hydrogel with utility to release drug over skin. Journal of Sol-Gel Science and Technology, 2020, 94, 616-627.	2.4	5
652	Study of chemical compound spatial distribution in biodegradable active films using NIR hyperspectral imaging and multivariate curve resolution. Journal of Chemometrics, 2020, 34, e3193.	1.3	3
653	Effect of Mesoporous Silica Nanoparticles on The Physicochemical Properties of Pectin Packaging Material for Strawberry Wrapping. Nanomaterials, 2020, 10, 52.	4.1	31
654	Biogenerated Polymers: An Environmental Alternative. DYNA (Colombia), 2020, 87, 75-84.	0.4	6
655	Human metabolite-derived alkylsuccinate/dilinoleate copolymers: from synthesis to application. Journal of Materials Chemistry B, 2020, 8, 9980-9996.	5.8	3
656	A Comprehensive Review on Corn Starch-Based Nanomaterials: Properties, Simulations, and Applications. Polymers, 2020, 12, 2161.	4.5	33
657	Biodegradable edible films of ripe banana peel and starch enriched with extract of Eriobotrya japonica leaves. Food Bioscience, 2020, 38, 100750.	4.4	33
658	Biopolymer film fabrication for skin mimetic tissue regenerative wound dressing applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2022, 71, 196-207.	3.4	21
659	Preparation of bioactive functional poly(lactic acid)/curcumin composite film for food packaging application. International Journal of Biological Macromolecules, 2020, 162, 1780-1789.	7.5	152
660	Pervaporation separation of isopropylbenzene from water using four different polymeric membranes: Membrane preparation, modification, characterization, and performance evaluation. Journal of the Taiwan Institute of Chemical Engineers, 2020, 114, 67-80.	5.3	15
661	Potential of cheese whey bioactive proteins and peptides in the development of antimicrobial edible film composite: A review of recent trends. Trends in Food Science and Technology, 2020, 103, 57-67.	15.1	59

#	ARTICLE	IF	Citations
662	Stability of zeinâ€based films and their mechanism of change during storage at different temperatures and relative humidity. Journal of Food Processing and Preservation, 2020, 44, e14671.	2.0	7
663	Effect of CuS reinforcement on the mechanical, water vapor barrier, UV-light barrier, and antibacterial properties of alginate-based composite films. International Journal of Biological Macromolecules, 2020, 164, 37-44.	7.5	71
664	Averrhoa bilimbi pectin-based edible films: Effects of the linearity and branching of the pectin on the physicochemical, mechanical, and barrier properties of the films. International Journal of Biological Macromolecules, 2020, 163, 1276-1282.	7. 5	28
665	Biobased polymer composite from poly(lactic acid): processing, fabrication, and characterization for food packaging., 2020,, 97-115.		12
666	Glutaric acid production by systems metabolic engineering of an ⟨scp⟩l⟨/scp⟩ -lysine–overproducing ⟨i⟩Corynebacterium glutamicum⟨/i⟩. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30328-30334.	7.1	56
667	Formulation and Characterization of Antimicrobial Edible Films Based on Whey Protein Isolate and Tarragon Essential Oil. Polymers, 2020, 12, 1748.	4.5	55
668	Utilization of Cempedak Fruit for Biodegradable Plastic Production. IOP Conference Series: Earth and Environmental Science, 2020, 499, 012016.	0.3	0
669	Evaluation of the microencapsulation of orange essential oil in biopolymers by using a spray-drying process. Scientific Reports, 2020, 10, 11799.	3.3	22
670	Characterization Study of Empty Fruit Bunch (EFB) Fibers Reinforcement in Poly(Butylene) Succinate (PBS)/Starch/Glycerol Composite Sheet. Polymers, 2020, 12, 1571.	4.5	81
671	Development and characterization of chitosan and D-α-tocopheryl polyethylene glycol 1000 succinate composite films containing different flavones. Food Packaging and Shelf Life, 2020, 25, 100531.	7.5	18
672	Effect of cinnamon oil on banana peel film as antibacterial agents to extent shelf-life of foods. AIP Conference Proceedings, 2020, , .	0.4	1
673	Using analytical pyrolysis and scanning electron microscopy to evaluate charcoal formation of four wood taxa from the caatinga of north-east Brazil. Journal of Analytical and Applied Pyrolysis, 2020, 151, 104909.	5.5	6
674	Improving wood durability against G. Trabeum and C. versicolor using starch based antifungal coating from Dioscorea hispida sp Journal of the Taiwan Institute of Chemical Engineers, 2020, 115, 242-250.	5. 3	4
675	8 Biobased functional additives for polymers. , 2020, , 173-192.		1
676	Characteristics of rice starch film blended with sugar (trehalose/allose) and oil (canola oil/coconut) Tj ETQq0 0 0 0 85, 3372-3379.	rgBT /Ovei 3.1	rlock 10 Tf 50 7
677	Development of Electrospun Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Monolayers Containing Eugenol and Their Application in Multilayer Antimicrobial Food Packaging. Frontiers in Nutrition, 2020, 7, 140.	3.7	38
678	Bioactive emulsions with beneficial antimicrobial application in textile material production. Cellulose, 2020, 27, 9711-9723.	4.9	9
679	UV-Curable Cellulose Nanofiber-Reinforced Soy Protein Resins for 3D Printing and Conventional Molding. ACS Applied Polymer Materials, 2020, 2, 4666-4676.	4.4	23

#	Article	IF	CITATIONS
680	Enhancement of proton conduction in carboxymethyl cellulose-polyvinyl alcohol employing polyethylene glycol as a plasticizer. Bulletin of Materials Science, 2020, 43, 1.	1.7	9
681	Strategies to Improve the Properties of Amaranth Protein Isolate-Based Thin Films for Food Packaging Applications: Nano-Layering through Spin-Coating and Incorporation of Cellulose Nanocrystals. Nanomaterials, 2020, 10, 2564.	4.1	14
682	Underutilized finger millet crop for starch extraction, characterization, and utilization in the development of flexible thin film. Journal of Food Science and Technology, 2021, 58, 4411-4419.	2.8	12
683	Printability, Mechanical and Thermal Properties of Poly(3-Hydroxybutyrate)-Poly(Lactic) Tj ETQq1 1 0.784314 rgBT	Overlock	10 Tf 50 6
684	Graphene Derivatives in Biopolymer-Based Composites for Food Packaging Applications. Nanomaterials, 2020, 10, 2077.	4.1	31
685	Influence of Glycerol Content on the Physic-Chemical and Mechanical Properties of Cassava Starch Films. Materials Science Forum, 0, 1012, 57-61.	0.3	1
686	Traditional Sensory Evaluation and Bionic Electronic Nose as Innovative Tools for the Packaging Performance Evaluation of Chitosan Film. Polymers, 2020, 12, 2310.	4.5	6
687	Development and characterization of black mulberry (<i>Morus nigra</i>) pekmez (molasses) composite films based on alginate and pectin. Journal of Texture Studies, 2020, 51, 800-809.	2.5	7
688	Properties of cassava starch-based bioplastics and CMC with sorbitol as A plasticizer. IOP Conference Series: Earth and Environmental Science, 2020, 456, 012077.	0.3	3
689	Glycerol as a green solvent for enhancing the formulation of dextran methacrylate and gellan-based semi-interpenetrating polymer networks. Journal of Materials Science, 2020, 55, 9562-9577.	3.7	10
690	Bioplastic Production from Microalgae: A Review. International Journal of Environmental Research and Public Health, 2020, 17, 3842.	2.6	149
691	Structural and conductivity studies of polyacrylonitrile/methylcellulose blend based electrolytes embedded with lithium iodide. International Journal of Hydrogen Energy, 2020, 45, 19590-19600.	7.1	30
692	Effect of different polyols as plasticizers in soy based bioplastics. Industrial Crops and Products, 2020, 153, 112522.	5.2	23
693	4D Biofabrication of fibrous artificial nerve graft for neuron regeneration. Biofabrication, 2020, 12, 035027.	7.1	38
694	Preparation and characterization of grass carp collagen-chitosan-lemon essential oil composite films for application as food packaging. International Journal of Biological Macromolecules, 2020, 160, 340-351.	7.5	91
695	Valorisation of glycerol and CO2 to produce biodegradable polymer nanoparticles with a high percentage of bio-based components. Journal of CO2 Utilization, 2020, 40, 101192.	6.8	13
696	Enzymatic synthesis and tailoring lignin properties: A systematic study on the effects of plasticizers. Polymer, 2020, 202, 122725.	3.8	12
697	Effect of glycerol and sorbitol concentrations on mechanical, optical, and barrier properties of sweet potato starch film. NFS Journal, 2020, 20, 1-9.	4.3	112

#	Article	IF	CITATIONS
698	The Effects of Novel Thermal and Nonthermal Technologies on the Properties of Edible Food Packaging. Food Engineering Reviews, 2020, 12, 333-345.	5.9	17
699	Enhanced interfacial and mechanical performance of styrene-butadiene rubber/silica composites compatibilized by soybean oil derived silanized plasticization. Composites Science and Technology, 2020, 197, 108271.	7.8	30
700	Biodegradable Mulch Based on Cellulose of Cornhusk with Addition Anti UV-Tinuvin. Journal of Physics: Conference Series, 2020, 1491, 012051.	0.4	3
701	Anthocyanin food colorant and its application in pH-responsive color change indicator films. Critical Reviews in Food Science and Nutrition, 2021, 61, 2297-2325.	10.3	263
702	Effect of $\$hbox \{WO\}_{3}$ nanoparticle doping on the physical properties of PVC polymer. Bulletin of Materials Science, 2020, 43, 1.	1.7	26
703	Unexpected Plasticization Effects on the Structure and Properties of Polyelectrolyte Complexed Chitosan/Alginate Materials. ACS Applied Polymer Materials, 2020, 2, 2957-2966.	4.4	11
704	Physical, structural and antioxidant properties of brewer's spent grain protein films. Journal of the Science of Food and Agriculture, 2020, 100, 5458-5465.	3.5	23
705	Kefiran-based films: Fundamental concepts, formulation strategies and properties. Carbohydrate Polymers, 2020, 246, 116609.	10.2	30
706	Development, characterization and evaluation of the biocompatibility of catechol crosslinked horsegram protein films. European Polymer Journal, 2020, 134, 109800.	5.4	8
707	Gas Transport Phenomena and Polymer Dynamics in PHB/PLA Blend Films as Potential Packaging Materials. Polymers, 2020, 12, 647.	4.5	35
708	Renewable and sustainable biobased materials: An assessment on biofibers, biofilms, biopolymers and biocomposites. Journal of Cleaner Production, 2020, 258, 120978.	9.3	482
709	Extrusion of Porous Protein-Based Polymers and Their Liquid Absorption Characteristics. Polymers, 2020, 12, 459.	4.5	18
710	Emerging Eco-friendly Green Technologies for Wastewater Treatment. Microorganisms for Sustainability, 2020, , .	0.7	9
711	Stiffening, strengthening, and toughening of biodegradable poly(butylene adipate-co-terephthalate) with a low nanoinclusion usage. Carbohydrate Polymers, 2020, 247, 116687.	10.2	30
712	Oleochemistry Products. , 2020, , 201-268.		4
713	Superiority of Cellulose Non-Solvent Chemical Modification over Solvent-Involving Treatment: Application in Polymer Composite (part II). Materials, 2020, 13, 2901.	2.9	17
714	Fatty alcohol production: an opportunity of bioprocess. Biofuels, Bioproducts and Biorefining, 2020, 14, 986-1009.	3.7	33
715	Metal nanoparticles as antimicrobial agents in food packaging. , 2020, , 379-414.		19

#	Article	IF	CITATIONS
716	Nanoencapsulated bioactive components for active food packaging., 2020,, 493-532.		12
717	Impact of metal nanoparticles on the mechanical, barrier, optical and thermal properties of biodegradable food packaging materials. Critical Reviews in Food Science and Nutrition, 2021, 61, 2640-2658.	10.3	90
718	Glycerol-plasticized agarose separator suppressing dendritic growth in Li metal battery. Carbohydrate Polymers, 2020, 247, 116697.	10.2	9
719	Effect of additives on chia mucilage suspensions: A rheological approach. Food Hydrocolloids, 2020, 109, 106118.	10.7	14
720	Effect of Modified Cardanol as Secondary Plasticizer on Thermal and Mechanical Properties of Soft Polyvinyl Chloride. ACS Omega, 2020, 5, 17111-17117.	3.5	29
722	Fundamentals of two-dimensional films and membranes. , 2020, , 35-66.		6
723	Probiotic-containing edible films and coatings of biopolymers. , 2020, , 589-615.		2
724	Fungal mycelium classified in different material families based on glycerol treatment. Communications Biology, 2020, 3, 334.	4.4	37
725	Effect of Lauric Acid on the Thermal and Mechanical Properties of Polyhydroxybutyrate (PHB)/Starch Composite Biofilms. International Journal of Polymer Science, 2020, 2020, 1-11.	2.7	10
726	A new bio-based fibre-reinforced polymer obtained from sheep wool short fibres and PLA. Green Materials, 2020, 8, 79-91.	2.1	8
727	Chia seeds to develop new biodegradable polymers for food packaging: Properties and biodegradability. Polymer Engineering and Science, 2020, 60, 2214-2223.	3.1	31
728	Glycerol plasticisation of chitosan/carboxymethyl cellulose composites: Role of interactions in determining structure and properties. International Journal of Biological Macromolecules, 2020, 163, 683-693.	7.5	19
729	Genetically-programmed, mesenchymal stromal cell-laden & mechanically strong 3D bioprinted scaffolds for bone repair. Journal of Controlled Release, 2020, 325, 335-346.	9.9	25
730	Impact of Plasticizers on Lignin–Carrageenan Formulation Properties and on Phosphorus Release from a Coated Triple Superphosphate Fertilizer. Industrial & Engineering Chemistry Research, 2020, 59, 14172-14179.	3.7	17
731	Application of bacterial cellulose film as a biodegradable and antimicrobial packaging material. Materials Today: Proceedings, 2020, 31, 83-88.	1.8	42
732	Use of sea urchin spines with chitosan gel for biodegradable film production. International Journal of Biological Macromolecules, 2020, 152, 102-108.	7.5	14
733	Thermo-mechanical properties and blend behaviour of cellulose acetate/lactates and acid systems: Natural-based plasticizers. Carbohydrate Polymers, 2020, 237, 116072.	10.2	11
734	Chitosan nanoemulsions as advanced edible coatings for fruits and vegetables: Composition, fabrication and developments in last decade. International Journal of Biological Macromolecules, 2020, 152, 154-170.	7.5	79

#	Article	IF	Citations
735	Oxidative damage in the liver and kidney induced by dermal exposure to diisononyl phthalate in Balb/c mice. Toxicology and Industrial Health, 2020, 36, 30-40.	1.4	18
736	A Brief Review of Edible Coating Materials for the Microencapsulation of Probiotics. Coatings, 2020, 10, 197.	2.6	55
737	Interfacial Assembly of a Cashew Nut (Anacardium occidentale) Testa Extract onto a Cellulose-Based Film from Sugarcane Bagasse to Produce an Active Packaging Film with pH-Triggered Release Mechanism. Food and Bioprocess Technology, 2020, 13, 501-510.	4.7	16
738	Smart ulvan films responsive to stimuli of plasticizer and extraction condition in physico-chemical, optical, barrier and mechanical properties. International Journal of Biological Macromolecules, 2020, 150, 714-726.	7.5	44
739	Whey protein films added with galactooligosaccharide and xylooligosaccharide. Food Hydrocolloids, 2020, 104, 105755.	10.7	44
740	The effect of dehydration/rehydration of bacterial nanocellulose on its tensile strength and physicochemical properties. Carbohydrate Polymers, 2020, 236, 116023.	10.2	29
741	Materiality of Edible Film Packaging in Muscle Foods: A Worthwhile Conception. Journal of Packaging Technology and Research, 2020, 4, 117-132.	1.5	29
742	A Study on the Synthesis of Poly (3-hydroxybutyrate-co-3-hydroxyvalerate) by Bacillus megaterium Utilizing Cheese Whey Permeate. Journal of Polymers and the Environment, 2020, 28, 1390-1405.	5.0	24
743	Prospects of biopolymer technology as an alternative option for non-degradable plastics and sustainable management of plastic wastes. Journal of Cleaner Production, 2020, 258, 120536.	9.3	187
744	Introduction of biopolymers. , 2020, , 1-45.		5
745	Investigation on morphological structure and crystal transition of maize starch gelatinized in pure glycerol. Journal of Cereal Science, 2020, 92, 102924.	3.7	13
746	Effects of sorbitol and formamide plasticizers on molecular motion in corn starch studied using NMR and DMTA. Journal of Applied Polymer Science, 2020, 137, 48964.	2.6	23
747	Enhanced mechanical properties of plasticized polylactic acid filament for fused deposition modelling: Effect of in situ heat treatment. Progress in Rubber, Plastics and Recycling Technology, 2020, 36, 131-142.	1.8	9
748	Enzymatic plasticising of lignin and styrene with adipic acid to synthesize a biopolymer with high antioxidant and thermostability. Polymer Degradation and Stability, 2020, 174, 109081.	5.8	5
749	Synthesis of biogenic chitosan-functionalized 2D layered MoS2 hybrid nanocomposite and its performance in pharmaceutical applications: In-vitro antibacterial and anticancer activity. International Journal of Biological Macromolecules, 2020, 149, 1019-1033.	7.5	44
750	On effect of almond skin powder waste reinforcement in PA6: Rheological, thermal and wear properties. Materials Today: Proceedings, 2020, 33, 1546-1551.	1.8	9
751	Polymers for advanced lithium-ion batteries: State of the art and future needs on polymers for the different battery components. Progress in Energy and Combustion Science, 2020, 79, 100846.	31.2	103
752	Effects of glycerol and thymol on physical, mechanical, and thermal properties of corn starch films. Food Hydrocolloids, 2020, 106, 105884.	10.7	171

#	Article	IF	CITATIONS
753	Ranking Plasticizers for Polymers with Atomistic Simulations: PVT, Mechanical Properties, and the Role of Hydrogen Bonding in Thermoplastic Starch. ACS Applied Polymer Materials, 2020, 2, 2016-2026.	4.4	29
754	Development, physicalâ€chemical properties, and photodegradation of pectin film reinforced with malt bagasse fibers by continuous casting. Journal of Applied Polymer Science, 2020, 137, 49178.	2.6	14
755	Effect of plasticiser on the morphology, mechanical properties and permeability of albumen-based nanobiocomposites. Food Packaging and Shelf Life, 2020, 24, 100499.	7.5	3
756	Preparation and Characterization of Films Based on a Natural P(3HB)/mcl-PHA Blend Obtained through the Co-culture of Cupriavidus Necator and Pseudomonas Citronellolis in Apple Pulp Waste. Bioengineering, 2020, 7, 34.	3.5	44
757	Plasticized kafirin-based films: analysis of thermal, barrier and mechanical properties. Polymer Bulletin, 2021, 78, 1721-1733.	3.3	1
758	Effect of Acylation of Rapeseed Proteins with Lauroyl and Oleoyl Chloride on Solubility and Film-Forming Properties. Waste and Biomass Valorization, 2021, 12, 745-755.	3.4	5
759	Importance of gelatin, nanoparticles and their interactions in the formulation of biodegradable composite films: a review. Polymer Bulletin, 2021, 78, 4047-4073.	3.3	12
760	Optimization, characterization and evaluation of papaya polysaccharide-corn starch film for fresh cut apples. International Journal of Biological Macromolecules, 2021, 166, 1057-1071.	7.5	24
761	Biopolymers for sustainable membranes in CO2 separation: a review. Fuel Processing Technology, 2021, 213, 106643.	7.2	55
762	Biodegradable plastic mulches: Impact on the agricultural biotic environment. Science of the Total Environment, 2021, 750, 141228.	8.0	161
763	Naphthalene Syndrome and Vinegar Syndrome Affected Films: An International Survey of Audiovisual Conservation Practitioners. Studies in Conservation, 2021, 66, 154-166.	1.1	2
764	Tensile and morphological properties of nanocrystalline cellulose and nanofibrillated cellulose reinforced <scp>PLA</scp> bionanocomposites: A review. Polymer Engineering and Science, 2021, 61, 22-38.	3.1	27
765	Furcellaran: An innovative biopolymer in the production of films and coatings. Carbohydrate Polymers, 2021, 252, 117221.	10.2	38
766	Pumpkin seed oil cake/polyethylene film as new food packaging material, with perspective for packing under modified atmosphere. Packaging Technology and Science, 2021, 34, 25-33.	2.8	8
767	Improving bacterial cellulose films by ex-situ and in-situ modifications: A review. Food Hydrocolloids, 2021, 113, 106514.	10.7	53
768	The composition of poly(vinyl chloride) with polylactide/poly(butylene terephthalate-co-butylene) Tj ETQq1 1 0.78 Biodegradation, 2021, 157, 105153.	4314 rgB1 3.9	Γ /Overlock O
769	Tailoring the low-density polyethylene - thermoplastic starch composites using cellulose nanocrystals and compatibilizer. Polymer Testing, 2021, 93, 107007.	4.8	19
770	Leveraging carbon dioxide to control the H2/CO ratio in catalytic pyrolysis of fishing net waste. Renewable and Sustainable Energy Reviews, 2021, 138, 110559.	16.4	18

#	Article	IF	CITATIONS
771	Characterization of a flavonolâ€rich antioxidant fraction from <scp><i>Spondias purpurea</i></scp> L. pulp and the effect of its incorporation on cellulose acetateâ€based film. Journal of the Science of Food and Agriculture, 2021, 101, 3270-3279.	3.5	7
772	Characterization of Biodegradable Films Produced from Mixtures of Alginate, Starch and Babassu Fibers. Journal of Polymers and the Environment, 2021, 29, 1212-1226.	5.0	7
773	Preparation and Characterization of Films Based on Disintegrated Bacterial Cellulose and Montmorillonite. Journal of Polymers and the Environment, 2021, 29, 1526-1541.	5.0	9
774	On the intersection of molecular bioelectronics and biosensors: 20ÂYears of C3B. Biosensors and Bioelectronics, 2021, 176, 112889.	10.1	3
775	Packaging potential of <i>lpomoea batatas</i> and κâ€carrageenan biobased composite edible film: Its rheological, physicomechanical, barrier and optical characterization. Journal of Food Processing and Preservation, 2021, 45, e15153.	2.0	11
776	The effect of natural modifiers for starch hydrophobization on performance of composite based on ethylene acrylic acid copolymer. Polymer Composites, 2021, 42, 1325-1337.	4.6	5
777	Efficient greener methodology for the preparation of bio-based phase change materials from lipids. Phosphorus, Sulfur and Silicon and the Related Elements, 2021, 196, 407-413.	1.6	4
778	Degradable Gelatin-Based Supramolecular Coating for Green Paper Sizing. ACS Applied Materials & Interfaces, 2021, 13, 1367-1376.	8.0	21
779	Four modified sodium alginate/carboxymethylcellulose blends for prednisone delivery. Journal of Applied Polymer Science, 2021, 138, 50383.	2.6	4
780	Thermal behavior of PLA plasticized by commercial and cardanol-derived plasticizers and the effect on the mechanical properties. Journal of Thermal Analysis and Calorimetry, 2021, 146, 131-141.	3.6	34
781	Potential Roles of the Glass Transition Temperature of PLGA Microparticles in Drug Release Kinetics. Molecular Pharmaceutics, 2021, 18, 18-32.	4.6	44
782	Graphene oxide enhanced ionic liquid plasticisation of chitosan/alginate bionanocomposites. Carbohydrate Polymers, 2021, 253, 117231.	10.2	9
783	Physicochemical properties and antibacterial activity of corn starch-based films incorporated with Zanthoxylum bungeanum essential oil. Carbohydrate Polymers, 2021, 254, 117314.	10.2	73
784	Effects of glycerol and sorbitol on optical, mechanical, and gas barrier properties of potato peelâ€based films. Packaging Technology and Science, 2021, 34, 11-23.	2.8	14
785	Biopolymers based on copolyester and modified banana starch: property approach. Green Materials, 2021, 9, 78-83.	2.1	0
786	Effects of Polyol-Based Plasticizer Types and Concentration on the Properties of Polyvinyl Alcohol and Casein Blend Films. Journal of Polymers and the Environment, 2021, 29, 313-322.	5.0	17
787	Potential of the Biodegradability and Characteristics of Bioplastic From Microalgae Residues. International Journal on Algae, 2021, 23, 95-108.	0.3	0
788	Nile tilapia (Oreochromis niloticus) waste protein-based films. International Journal of Biobased Plastics, 2021, 3, 85-97.	5.6	2

#	Article	IF	CITATIONS
789	Functional Properties of Low-Modulus PMMA Bone Cements Containing Linoleic Acid. Journal of Functional Biomaterials, 2021, 12, 5.	4.4	6
790	Polyol from epoxidized candlenut oil (Aleurites moluccanus) and polyethylene glycol (PEG) 200: Kinetic study of polyol production. AIP Conference Proceedings, 2021, , .	0.4	0
791	Coating and Film-Forming Properties. , 2021, , 267-306.		1
792	Tailoring of the physical and mechanical properties of biocompatible graphene oxide/gelatin composite nanolaminates <i>via</i> altering the crystal structure and morphology. Materials Advances, 0, , .	5.4	2
793	Altering the Hydrophobic/Hydrophilic Nature of Bioplastic Surfaces for Biomedical Applications., 2021,, 431-466.		2
794	Highly tough, freezing-tolerant, healable and thermoplastic starch/poly(vinyl alcohol) organohydrogels for flexible electronic devices. Journal of Materials Chemistry A, 2021, 9, 18406-18420.	10.3	91
795	Temperature-dependent modulation by biaryl-based monomers of the chain length and morphology of biphenyl-based supramolecular polymers. Chemical Science, 2021, 12, 13001-13012.	7.4	6
796	An overview on plasticized biodegradable corn starch-based films: the physicochemical properties and gelatinization process. Critical Reviews in Food Science and Nutrition, 2022, 62, 2569-2579.	10.3	26
797	In vivo and Post-synthesis Strategies to Enhance the Properties of PHB-Based Materials: A Review. Frontiers in Bioengineering and Biotechnology, 2020, 8, 619266.	4.1	61
798	Natural Biopolymer-Based Biocompatible Conductors for Stretchable Bioelectronics. Chemical Reviews, 2021, 121, 2109-2146.	47.7	199
799	An introduction to biopolymer-based nanofilms, their applications, and limitations., 2021, , 3-17.		1
800	CHARACTERISATION AND PRODUCTION OF POLY (LACTIC ACID)/POLY(ETHYLENE GLYCOL) MICROFIBER VIA MELT DRAWN SPINNING PROCESS. IIUM Engineering Journal, 2021, 22, 201-212.	0.8	4
801	(Nano)Fibrillar morphology development in biobased poly(butylene <scp>succinateâ€coâ€adipate</scp>)/poly(amideâ€11) blown films. Polymer Engineering and Science, 2021, 61, 1324-1337.	3.1	4
802	Probiotics in edible coatings: Approaches to food security and fruits disease management. , 2021, , 371-386.		1
803	Acrylation and Acrylonitrile Grafting with MMT Bamboo Nanocomposite. Engineering Materials, 2021, , 39-61.	0.6	2
804	(Bio)Nanotechnology in Food Science—Food Packaging. Nanomaterials, 2021, 11, 292.	4.1	106
805	Nanoscience and nanotechnology regarding food packaging and nanomaterials to extending the postharvest life and the shelf life of foods., 2021,, 313-384.		2
806	Production of Bioplastics by Different Methods—A Step Toward Green Economy: A Review. , 2021, , 109-139.		1

#	Article	IF	CITATIONS
807	Preparation and characterization of blend film based on chitosan-poly lactic acid (PLA) composites. AIP Conference Proceedings, 2021, , .	0.4	2
808	Bioâ€based sustainable films from the Algerian <scp><i>Opuntia ficusâ€indica</i></scp> cladodes powder: Effect of plasticizer content. Journal of Applied Polymer Science, 2021, 138, 50450.	2.6	7
809	Synthesis of novel plasticizer ester end-capped oligomeric lactic acid and its plasticizing performance in poly(vinyl chloride). New Journal of Chemistry, 2021, 45, 11371-11379.	2.8	16
810	Biopolymer-based edible films and coatings for food applications. , 2021, , 81-107.		5
811	Thermoplasticized Pectin by Extrusion/Thermo-Compression for Film Industrial Application. Journal of Polymers and the Environment, 2021, 29, 2546-2556.	5.0	14
812	Polymer Nanocomposite Matrices. , 2021, , 333-344.		O
813	Natural Polymeric Materials: A Solution to Plastic Pollution from the Agro-Food Sector. Polymers, 2021, 13, 158.	4.5	69
814	Preparation of cypress (<i>Cupressus sempervirens</i> L.) essential oil loaded poly(lactic acid) nanofibers. Open Chemistry, 2021, 19, 796-805.	1.9	6
815	Biodegradability properties of biopolymers. , 2021, , 231-251.		0
816	Polysaccharide-Based Materials as Promising Alternatives to Synthetic-Based Plastics for Food Packaging Applications., 2021,, 515-554.		1
817	Biodegradation of Poly(Lactic Acid) Biocomposites under Controlled Composting Conditions and Freshwater Biotope. Polymers, 2021, 13, 594.	4.5	25
818	The Interplay between Drug and Sorbitol Contents Determines the Mechanical and Swelling Properties of Potential Rice Starch Films for Buccal Drug Delivery. Polymers, 2021, 13, 578.	4.5	10
820	Blends of Poly(butylene glutarate) and Poly(lactic acid) with Enhanced Ductility and Composting Performance. ACS Applied Polymer Materials, 2021, 3, 1652-1663.	4.4	14
821	Fabrication of anti-bacterial, hydrophobic and UV resistant galactomannan-zinc oxide nanocomposite films. Polymer, 2021, 215, 123412.	3.8	23
822	Current status of biobased and biodegradable food packaging materials: Impact on food quality and effect of innovative processing technologies. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 1333-1380.	11.7	134
823	Influence of the addition of chitin nanocrystals on the characteristics of cellulose acetate films. Polimery, 2021, 66, 98-104.	0.7	2
824	Glass Transition Behavior of Wet Polymers. Materials, 2021, 14, 730.	2.9	7
825	Biodegradable blend films of poly(ε-caprolactone)/poly(propylene carbonate) for shelf life extension of whole white button mushrooms. Journal of Food Science and Technology, 2022, 59, 144-156.	2.8	7

#	Article	IF	CITATIONS
826	Mechanical properties of thermoplastic parts produced by fused deposition modeling:a review. Rapid Prototyping Journal, 2021, 27, 537-561.	3.2	42
827	Influence of plasticiser type and nanoclay on the properties of chitosan-based materials. European Polymer Journal, 2021, 144, 110225.	5.4	28
828	The Influence of Starch Origin on the Properties of Starch Films: Packaging Performance. Materials, 2021, 14, 1146.	2.9	42
829	Fabrication of natural polysaccharide based hydrogel with utility to entrap pollutants. Journal of Physics: Conference Series, 2021, 1797, 012060.	0.4	2
830	Recent Attempts in the Design of Efficient PVC Plasticizers with Reduced Migration. Materials, 2021, 14, 844.	2.9	52
831	On the Use of OPEFB-Derived Microcrystalline Cellulose and Nano-Bentonite for Development of Thermoplastic Starch Hybrid Bio-Composites with Improved Performance. Polymers, 2021, 13, 897.	4.5	18
832	Characteristics of bioplastics based on sago starch contain betel (piper betle) leaf extract: Effect of glycerol as plasticizer. IOP Conference Series: Materials Science and Engineering, 2021, 1122, 012099.	0.6	1
833	Influence of hydrogen bond networks in Glycerol / N-Methyl-2-Pyrrolidone mixtures studied by dielectric relaxation spectroscopy. Journal of Molecular Structure, 2021, 1227, 129703.	3.6	8
834	Preparation of formyl cellulose and its enhancement effect on the mechanical and barrier properties of polylactic acid films. International Journal of Biological Macromolecules, 2021, 172, 82-92.	7.5	13
835	Cellulose Nanofiber-Based Nanocomposite Films Reinforced with Zinc Oxide Nanorods and Grapefruit Seed Extract. Nanomaterials, 2021, 11, 877.	4.1	57
836	The Influence of Cysteine on the Performances of Gelatin Film. IOP Conference Series: Earth and Environmental Science, 2021, 697, 012011.	0.3	1
837	Multifunctional hybrid composite films based on biodegradable cellulose nanofibers, aloe juice, and carboxymethyl cellulose. Cellulose, 2021, 28, 4927-4941.	4.9	15
838	Research progress of novel bio-based plasticizers and their applications in poly(vinyl chloride). Journal of Materials Science, 2021, 56, 10155-10182.	3.7	53
839	Development and characterization of cellulose nanofibre reinforced Acacia nilotica gum nanocomposite. Industrial Crops and Products, 2021, 161, 113180.	5.2	9
840	Plasticizing effect of biodegradable dipropylene glycol bibenzoate and epoxidized linseed oil on diglycidyl ether of bisphenol A based epoxy resin. Journal of Applied Polymer Science, 2021, 138, 50661.	2.6	7
841	The preparation, characterization and antibacterial properties of chitosan/pectin silver nanoparticle films. Polymer Bulletin, 2022, 79, 3495-3512.	3.3	23
842	Study of the Effect of Doping with Alumina and Silica the Structural and Electrical Properties of Epoxy. Journal of Physics: Conference Series, 2021, 1818, 012043.	0.4	0
843	Potential of the biodegradability and characteristics of bio-plastic from microalgae residues. Al'gologiya, 2021, 31, 80-92.	0.4	0

#	Article	IF	CITATIONS
844	Eco-friendly natural extract loaded antioxidative chitosan/polyvinyl alcohol based active films for food packaging. Heliyon, 2021, 7, e06550.	3.2	39
845	Synthesis of plant oil derived polyols and their effects on the properties of prepared ethyl cellulose composite films. Cellulose, 2021, 28, 4211-4222.	4.9	6
846	Potential natural polymerâ€based nanofibres for the development of facemasks in countering viral outbreaks. Journal of Applied Polymer Science, 2021, 138, 50658.	2.6	41
847	By-Products from Food Industry as a Promising Alternative for the Conventional Fillers for Wood–Polymer Composites. Polymers, 2021, 13, 893.	4.5	11
848	The Effect of a Zinc-Containing Additive on the Properties of PVC Compounds. Advances in Polymer Technology, 2021, 2021, 1-14.	1.7	7
849	Effects of Plasticizers on Mechanical Properties, Oxygen Permeability, and Microstructural Characteristics of HPMC/Beeswax Composite Film. Nano Hybrids and Composites, 0, 32, 25-34.	0.8	6
850	Thermoprocessed starch-polyester bilayer films as affected by the addition of gellan or xanthan gum. Food Hydrocolloids, 2021, 113, 106509.	10.7	29
851	Twoâ€Steps of Gelation System Enhanced the Stability of Syzygium cuminiÂAnthocyanins by Encapsulation with Sodium Alginate, Maltodextrin, Chitosan and Gum Arabic. Journal of Polymers and the Environment, 2021, 29, 3679-3692.	5.0	22
853	Direct Conversion of Sugarcane Bagasse into an Injection-Moldable Cellulose-Based Thermoplastic via Homogeneous Esterification with Mixed Acyl Groups. ACS Sustainable Chemistry and Engineering, 2021, 9, 5933-5941.	6.7	15
856	Oil additives demonstrate dual effects on thermal and mechanical properties of cross-linked hydroxy-DCPD thermosets. European Polymer Journal, 2021, 149, 110364.	5.4	1
858	Hydroxy citric acid cross-linked chitosan/guar gum/poly(vinyl alcohol) active films for food packaging applications. International Journal of Biological Macromolecules, 2021, 177, 166-175.	7.5	49
859	The Epoxidized Vietnam Rubber Seed Oil as a Secondary Plasticizer/Thermal Stabilizer in PVC Processing. International Journal of Polymer Science, 2021, 2021, 1-8.	2.7	4
860	Algae biopolymer towards sustainable circular economy. Bioresource Technology, 2021, 325, 124702.	9.6	112
861	Stability of nitrile and vinyl latex gloves under repeated disinfection cycles. Materials Today Sustainability, 2021, 11-12, 100067.	4.1	7
862	Food Plastic Packaging Transition towards Circular Bioeconomy: A Systematic Review of Literature. Sustainability, 2021, 13, 3896.	3.2	30
863	Dual Plasticizer/Thermal Stabilizer Effect of Epoxidized Chia Seed Oil (Salvia hispanica L.) to Improve Ductility and Thermal Properties of Poly(Lactic Acid). Polymers, 2021, 13, 1283.	4.5	19
864	Thermoplastic starch plasticized by polymeric ionic liquid. European Polymer Journal, 2021, 148, 110367.	5.4	23
865	Polysaccharides as Edible Films and Coatings: Characteristics and Influence on Fruit and Vegetable Quality—A Review. Agronomy, 2021, 11, 813.	3.0	107

#	Article	IF	CITATIONS
866	Cellulose nanofibrils reinforced xylan-alginate composites: Mechanical, thermal and barrier properties. International Journal of Biological Macromolecules, 2021, 179, 448-456.	7. 5	23
867	The Effect of Extraction Conditions on the Barrier and Mechanical Properties of Kefiran Films. Coatings, 2021, 11, 602.	2.6	1
868	Preparation of Edible Films Made from Chitosan with Pomegranate Peel Extract and Study Its Barrier, Mechanical and Antioxidant Properties. IOP Conference Series: Earth and Environmental Science, 2021, 761, 012122.	0.3	3
869	Thermoplastic Starch Nanocomposites Reinforced with Cellulose Nanocrystal Suspensions Containing Residual Salt from Neutralization. Macromolecular Materials and Engineering, 2021, 306, 2100161.	3.6	6
870	Effect of Plasticizers on Properties, Retrogradation, and Processing of Extrusionâ€Obtained Thermoplastic Starch: A Review. Starch/Staerke, 2021, 73, 2100060.	2.1	23
871	Metal Doped PVA Films for Opto-Electronics-Optical and Electronic Properties, an Overview. Molecules, 2021, 26, 2886.	3.8	14
872	Recent development of polyimides: Synthesis, processing, and application in gas separation. Journal of Polymer Science, 2021, 59, 943-962.	3.8	43
873	Synergistic Effect of Titanium Dioxide (TiO2) and Ionizing Radiation on Thermal and Mechanical Properties of Carboxymethyl Cellulose (CMC) for Potential Application in Removal of Basic Dye from Wastewater. Journal of Polymers and the Environment, 2021, 29, 3887-3899.	5.0	8
874	Approaches in Animal Proteins and Natural Polysaccharides Application for Food Packaging: Edible Film Production and Quality Estimation. Polymers, 2021, 13, 1592.	4.5	36
876	Active edible packaging based on milk proteins: A route to carry and deliver nutraceuticals. Trends in Food Science and Technology, 2021, 111, 688-705.	15.1	52
877	Effect of ketal group in castor oil acidâ€based plasticizer on the properties of poly(vinyl chloride). Journal of Applied Polymer Science, 2021, 138, 51274.	2.6	8
878	Development of Pea Protein Films with Haskap (Lonicera caerulea) Leaf Extracts from Aqueous Two-phase Systems. Food and Bioprocess Technology, 2021, 14, 1733-1750.	4.7	9
879	In-vitro evaluation of thermoplastic starch/ beta-tricalcium phosphate nano-biocomposite in bone tissue engineering. Ceramics International, 2021, 47, 15458-15463.	4.8	18
880	A Review on Potential Use of Gelatin-based Film as Active and Smart Biodegradable Films for Food Packaging Application. Food Reviews International, 2023, 39, 1063-1085.	8.4	37
881	Facile fabrication and structural elucidation of lignin based macromolecular green composites for multifunctional applications. Journal of Applied Polymer Science, 2021, 138, 51280.	2.6	5
882	Smart vaginal bilayer films of Tenofovir based on Eudragit \hat{A}^{\otimes} L100/natural polymer for the prevention of the sexual transmission of HIV. International Journal of Pharmaceutics, 2021, 602, 120665.	5.2	9
883	Long-term mechanical properties of a novel low-modulus bone cement for the treatment of osteoporotic vertebral compression fractures. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104437.	3.1	11
884	Comparative assessment of marine weathering of ROP-derived biopolymers against conventional plastics. Marine Pollution Bulletin, 2021, 167, 112272.	5.0	4

#	Article	IF	CITATIONS
885	Tuning Electrospun Substrate Stiffness for the Fabrication of a Biomimetic Amniotic Membrane Substitute for Corneal Healing. ACS Applied Bio Materials, 2021, 4, 5638-5649.	4.6	2
886	Monitoring the infection process of Rhizopus stolonifer on strawberry fruit during storage using films based on chitosan/polyvinyl alcohol/polyvinylpyrrolidone and plant extracts. International Journal of Biological Macromolecules, 2021, 182, 583-594.	7. 5	14
887	Phthalic Acid Esters: Natural Sources and Biological Activities. Toxins, 2021, 13, 495.	3.4	100
888	Biodegradable films from fishing industry waste: Technological properties and hygroscopic behavior. Journal of Composite Materials, 2021, 55, 4169-4181.	2.4	2
889	Effect of glycerol plasticizer loading on the physical, mechanical, thermal, and barrier properties of arrowroot (Maranta arundinacea) starch biopolymers. Scientific Reports, 2021, 11, 13900.	3.3	161
890	Structural studies and bioactivity of sodium alginate edible films fabricated through ferulic acid crosslinking mechanism. Journal of Food Engineering, 2021, 301, 110566.	5.2	45
891	Effects of soy protein isolate on mechanical and hydrophobic properties of oxidized corn starch film. LWT - Food Science and Technology, 2021, 147, 111529.	5.2	35
892	Effect of Glycerin as Plasticizer in Formulation of Grape Seed Oil (Vitis vinifera L.) Emulgel Peel-Off Mask. IOP Conference Series: Earth and Environmental Science, 2021, 819, 012058.	0.3	0
893	Essential oils as natural antimicrobials applied in meat and meat products—a review. Critical Reviews in Food Science and Nutrition, 2023, 63, 993-1009.	10.3	52
894	Improving Filmogenic and Barrier Properties of Nanocellulose Films by Addition of Biodegradable Plasticizers. ACS Sustainable Chemistry and Engineering, 2021, 9, 9647-9660.	6.7	15
895	Polylactide/cellulose acetate biocomposites as potential coating membranes for controlled and slow nutrients release from water-soluble fertilizers. Progress in Organic Coatings, 2021, 156, 106255.	3.9	19
896	Essential oils as additives in active starch-based food packaging films: A review. International Journal of Biological Macromolecules, 2021, 182, 1803-1819.	7.5	97
897	Effect of rice starch film blended with sugar (trehalose/allose) and oil (canola oil/coconut oil) on the physical properties and their interaction (Part II). Journal of Food Processing and Preservation, 2021, 45, e15795.	2.0	0
898	Cell wall hemicellulose for sustainable industrial utilization. Renewable and Sustainable Energy Reviews, 2021, 144, 110996.	16.4	83
899	The physicochemical effect of sugar alcohol plasticisers on oxidised nanocellulose gels and extruded filaments. Cellulose, 2021, 28, 7829-7843.	4.9	6
900	The novel trend of bacterial cellulose as biodegradable and oxygen scavenging films for food packaging application: An integrative review. IOP Conference Series: Earth and Environmental Science, 2021, 807, 022066.	0.3	4
901	Hydrothermal assisted isolation of microcrystalline cellulose from pepper (Piper nigrum L.) processing waste for making sustainable bio-composite. Journal of Cleaner Production, 2021, 305, 127229.	9.3	18
902	Morphology, Thermo-Mechanical Properties and Biodegradibility of PCL/PLA Blends Reactively Compatibilized by Different Organic Peroxides. Materials, 2021, 14, 4205.	2.9	7

#	Article	IF	CITATIONS
903	Valorization and Application of Fruit and Vegetable Wastes and By-Products for Food Packaging Materials. Molecules, 2021, 26, 4031.	3.8	41
904	Characterization of potential probiotic strain, L. reuteri B2, and its microencapsulation using alginate-based biopolymers. International Journal of Biological Macromolecules, 2021, 183, 423-434.	7.5	14
905	Characterization edible films of sago with glycerol as a plasticizer. IOP Conference Series: Earth and Environmental Science, 2021, 807, 022070.	0.3	4
906	Biodegradable Packaging Materials from Animal Processing Co-Products and Wastes: An Overview. Polymers, 2021, 13, 2561.	4.5	38
907	Current Strategies for the Production of Sustainable Biopolymer Composites. Polymers, 2021, 13, 2878.	4.5	28
908	Electrosprayed chitosanâ€coated alginate–pectin beads as potential system for colonâ€targeted delivery of ellagic acid. Journal of the Science of Food and Agriculture, 2022, 102, 965-975.	3.5	15
909	Applications of Biopolymers for Drugs and Probiotics Delivery. Polymers, 2021, 13, 2729.	4.5	71
910	Improvement of Paper Resistance against Moisture and Oil by Coating with Poly(-3-hydroxybutyrate-co-3-hydroxyvalerate) (PHBV) and Polycaprolactone (PCL). Applied Sciences (Switzerland), 2021, 11, 8058.	2.5	13
911	Optimization and development of orodispersible films for ledipasvir and sofosbuvir through solid dispersion using Box-Behnken design. Research Journal of Pharmaceutical Dosage Forms and Technology, 2021, , 201-208.	0.7	1
912	Development and characterization of probiotic mucilage based edible films for the preservation of fruits and vegetables. Scientific Reports, 2021, 11, 16608.	3.3	21
913	Polycaryophyllene as a Promising Plasticizer for Ethylene Propylene Diene Monomer Elastomers. ACS Applied Polymer Materials, 2021, 3, 3953-3959.	4.4	2
914	A Low-Cost Method to Prepare Biocompatible Filaments with Enhanced Physico-Mechanical Properties for FDM 3D Printing. Current Drug Delivery, 2021, 18, 700-711.	1.6	6
915	Enzymatic synthesis of glycerol, azido-glycerol and azido-triglycerol based amphiphilic copolymers and their relevance as nanocarriers: A review. European Polymer Journal, 2021, 158, 110690.	5.4	6
916	Performance assessment of polyvinyl chloride films plasticized with Citrullus lanatus seed oil based novel plasticizer. Polymer Testing, 2021, 101, 107271.	4.8	22
917	Development and optimisation of extruded bio-based polymers from poultry feathers. European Polymer Journal, 2021, 158, 110678.	5.4	7
918	Developments of biobased plasticizers for compostable polymers in the green packaging applications: A review. Biotechnology Progress, 2021, 37, e3210.	2.6	31
919	Effect of citric acid and plasma activated water on the functional properties of sodium alginate for potential food packaging applications. Food Packaging and Shelf Life, 2021, 29, 100733.	7. 5	29
920	Biodegradable polyhydroxybutyrate/cellulose/calcium carbonate bioplastic composites prepared by heatâ€assisted solution casting method. Journal of Applied Polymer Science, 2022, 139, 51645.	2.6	12

#	Article	IF	CITATIONS
921	Gelatin films: Study review of barrier properties and implications for future studies employing biopolymer films. Food Packaging and Shelf Life, 2021, 29, 100688.	7. 5	43
922	Nanochitosan augmented with essential oils and extracts as an edible antimicrobial coating for the shelf life extension of fresh produce: a review. Polymer Bulletin, 2022, 79, 8009-8032.	3.3	1
923	Edible coatings and films with incorporation of prebiotics â€"A review. Food Research International, 2021, 148, 110629.	6.2	11
924	A Comprehensive Study on Sorption, Water Barrier, and Physicochemical Properties of Some Proteinand Carbohydrate-Based Edible Films. Food and Bioprocess Technology, 2021, 14, 2161-2179.	4.7	16
925	Bioactive packaging based on delipidated egg yolk protein edible films with lactobionic acid and Lactobacillus plantarum CECT 9567: Characterization and use as coating in a food model. Food Hydrocolloids, 2021, 119, 106849.	10.7	26
926	Natural antioxidants-based edible active food packaging: An overview of current advancements. Food Bioscience, 2021, 43, 101251.	4.4	70
927	Application of plant mucilage polysaccharides and their techno-functional properties' modification for fresh produce preservation. Carbohydrate Polymers, 2021, 272, 118371.	10.2	19
928	Physical, thermal, mechanical, antimicrobial and physicochemical properties of starch based film containing aloe vera: a review. Journal of Materials Research and Technology, 2021, 15, 1572-1589.	5.8	29
929	Plant protein in material extrusion 3D printing: Formation, plasticization, prospects, and challenges. Journal of Food Engineering, 2021, 308, 110623.	5.2	32
930	Ecofriendly biopolymers and composites: Preparation and their applications in water-treatment. Biotechnology Advances, 2021, 52, 107815.	11.7	72
931	Enhancement of Mode I fracture toughness properties of epoxy reinforced with graphene nanoplatelets and carbon nanotubes. Composites Part B: Engineering, 2021, 224, 109177.	12.0	38
932	High strength biobased films prepared from xylan/chitosan polyelectrolyte complexes in the presence of ethanol. Carbohydrate Polymers, 2021, 273, 118602.	10.2	13
933	Antimicrobial edible films in food packaging: Current scenario and recent nanotechnological advancements- a review. Carbohydrate Polymer Technologies and Applications, 2021, 2, 100024.	2.6	94
934	Enhanced oil recovery using hyperbranched polyglycerol polymer-coated silica nanoparticles. Chemosphere, 2021, 285, 131295.	8.2	14
935	Recent advances in thermoplastic starches for food packaging: A review. Food Packaging and Shelf Life, 2021, 30, 100743.	7. 5	84
936	Face maskâ€"A potential source of phthalate exposure for human. Journal of Hazardous Materials, 2022, 422, 126848.	12.4	49
937	Applications in food products. , 2021, , 363-386.		0
938	Biopolymers: Production to consumption. , 2021, , 23-42.		0

#	Article	IF	Citations
939	Edible films and coatings as carriers of nano and microencapsulated ingredients., 2021,, 211-273.		2
940	New Eco-Friendly Packaging Strategies Based on the Use of Agri-Food By-Products and Waste. Springer Briefs in Molecular Science, 2021, , 31-41.	0.1	0
941	Comparative Analysis of Neurotoxicity of Six Phthalates in Zebrafish Embryos. Toxics, 2021, 9, 5.	3.7	27
944	The epoxidized linseed oil as a secondary plasticizer in <scp>PVC</scp> processing., 2020, 58, 534-539.		1
945	Food Biopackaging Based on Chitosan. , 2019, , 2057-2083.		4
946	Biogenic Plastic Additives. , 2020, , 161-178.		1
947	Chitosan/chitin-based composites for food packaging applications. , 2020, , 641-670.		8
948	A novel natural GRAS-grade enteric coating for pharmaceutical and nutraceutical products. International Journal of Pharmaceutics, 2020, 584, 119392.	5.2	15
949	\hat{l} ±-costic acid, a plant sesquiterpenoid from Dittrichia viscosa, as modifier of Poly (lactic acid) properties: a novel exploitation of the autochthone biomass metabolite for a wholly biodegradable system. Industrial Crops and Products, 2020, 146, 112134.	5.2	18
950	Incorporation of poultry eggshell and litter ash as high loading polymer fillers in polypropylene. Composites Part C: Open Access, 2020, 3, 100080.	3.2	13
951	Test methods for the characterization of gas and vapor permeability in polymers for food packaging application: A review. Polymer Testing, 2020, 89, 106606.	4.8	27
952	Starch/Alkane Diol Materials: Unexpected Ultraporous Surfaces, Near-Isoporous Cores, and Films Moving on Water. ACS Omega, 2020, 5, 28863-28869.	3.5	2
953	Biodegradable carboxymethyl cellulose based material for sustainable packaging application. Scientific Reports, 2020, 10, 21960.	3.3	114
954	Vacuum-heat treatment of Scots pine (Pinus sylvestris L.) wood pretreated with propanetriol. Wood Material Science and Engineering, 0, , 1-9.	2.3	9
955	Cryogenically printed flexible chitosan/bioglass scaffolds with stable and hierarchical porous structures for wound healing. Biomedical Materials (Bristol), 2021, 16, 015004.	3.3	8
957	Plasticizing and Hydrophobizing Effect of Plant OilBased Acrylic Monomers in Latex Copolymers with Styrene and Methyl Methacrylate. International Journal of Theoretical and Applied Nanotechnology, 0, , .	0.0	7
958	Production of Artificial Sausage Casings from Whey Proteins. International Journal of Nutrition and Food Sciences, 2014, 3, 30.	0.4	3
959	SPECIFIC MIGRATION OF ANTIOXIDANTS BHT, IRGANOX 1076, AND IRGAFOS 168 INTO TYPICAL EDIBLE OILS UNDER MICROWAVE HEATING CONDITIONS. , 2014, , 89-100.		1

#	Article	IF	CITATIONS
960	The Physical Characteristics of Whey Based Edible Film Added with Konjac. Current Research in Nutrition and Food Science, 2020, 8, 333-339.	0.8	5
961	Starch / Polyvinyl Alcohol Blends Containing Polyurethane as Plasticizer. Journal of Composites and Biodegradable Polymers, 2016, 4, 2-10.	0.3	10
962	SYNTHESIS AND STUDY OF PLASTICIZER PROPERTIES BASED ON PETROCHEMICAL RAW MATERIALS. Oil and Gas Business, 2020, , 57.	0.1	3
963	Techno-functional Properties of Edible Packaging Films at Different Polysaccharide Blends. Journal of Physical Science, 2019, 30, 23-41.	0.9	9
964	Obtaining and Characterisation of Starch-Based Edible Films Incorporating Honey, Propolis and Bee Bread. Acta Universitatis Cibiniensis Series E: Food Technology, 2019, 23, 193-198.	0.4	6
965	Organic and non-organic mulches – impact on environmental conditions, yield, and quality of Cucurbitaceae. Folia Horticulturae, 2019, 31, 129-145.	1.8	16
966	A New Class of Polymeric Anti-Allergen Nasal Barrier Film Solution for the Treatment of Allergic Rhinitis. Journal of Allergy & Therapy, 2017, 08, .	0.1	2
967	Soy Protein Based Green Composite: A Review. Research & Reviews Journal of Material Sciences, 2017, 05, .	0.1	7
968	What Are the Characteristics of Arabinoxylan Gels?. Food and Nutrition Sciences (Print), 2018, 09, 818-833.	0.4	4
969	Diffusion Analysis and Modeling of Potassium Sorbate in Gelatin Based Antimicrobial Film. Journal of Materials Science and Chemical Engineering, 2016, 04, 1-7.	0.4	2
970	Modified Vegetable Oil Based Additives as a Future Polymeric Materialâ€"Review. Open Journal of Organic Polymer Materials, 2015, 05, 1-22.	3.2	98
971	Composite films based on pumpkin oil cake obtained by different filtration process. Food and Feed Research, 2019, 46, 1-10.	0.5	3
972	Biopolymer films properties change affected by essential oils addition. Journal on Processing and Energy in Agriculture, 2019, 23, 61-65.	0.4	7
973	A hybrid ocular delivery system of cyclosporine-A comprising nanomicelle-laden polymeric inserts with improved efficacy and tolerability. Biomaterials Science, 2021, 9, 8235-8248.	5.4	17
974	Multilayer Films Based on Chitosan/Pectin Polyelectrolyte Complexes as Novel Platforms for Buccal Administration of Clotrimazole. Pharmaceutics, 2021, 13, 1588.	4.5	24
975	Superior Technique for the Production of Agarose Dressing Containing Sericin and Its Wound Healing Property. Polymers, 2021, 13, 3370.	4.5	5
976	Development and Characterization of Cornstarch-Based Bioplastics Packaging Film Using a Combination of Different Plasticizers. Polymers, 2021, 13, 3487.	4.5	35
977	Trends and challenges of biopolymerâ€based nanocomposites in food packaging. Comprehensive Reviews in Food Science and Food Safety, 2021, 20, 5321-5344.	11.7	68

#	Article	IF	CITATIONS
978	One-Pot Bioconversion of Tomato Waste into Poly-gamma-glutamic Acid (\hat{I}^3 -PGA) Biopolymer by a Novel Biocatalyst. ACS Sustainable Chemistry and Engineering, 2021, 9, 14330-14334.	6.7	6
979	Biosynthesis of polyhydroxyalkanoate (PHA) by a newly isolated strain Bacillus tequilensis ARY86 using inexpensive carbon source. Bioresource Technology Reports, 2021, 16, 100846.	2.7	5
980	Enhancing the functional properties of rice starch through biopolymer blending for industrial applications: A review. International Journal of Biological Macromolecules, 2021, 192, 100-117.	7.5	28
981	Study on Physical Properties of PVC Involving Norbornene Dialkyl Ester. Applied Chemistry for Engineering, 2014, 25, 602-606.	0.2	1
982	Chapter 8. Starch-based Blends. RSC Green Chemistry, 2015, , 263-325.	0.1	1
983	Mathematical Formulation of Apparent Diffusivity in Polymer Solution Coating with Plasticizer. Kagaku Kogaku Ronbunshu, 2015, 41, 392-396.	0.3	1
984	CARACTERIZAÇÃ f O FÃ s ICO-MECÃ,NICA DE BIOFILMES COMESTÃ v EIS Ã \in BASE DE GELATINA E DE AMIDOS DE MILHO E MANDIOCA. , 0, , .		0
985	AVALIAÇÃO DO EFEITO DO SORBITOL E DO GLICEROL NAS CARACTERÃSTICAS FÃSICAS, TÉRMICAS E MECÃ,NICAS DE HIDROGEL DE AMIDO DE MILHO RETICULADO COM GLUTARALDEÃDO. , 0, , .		0
986	Drying Model for Coating of Aqueous Solution of Plasticized Polymer. Kagaku Kogaku Ronbunshu, 2016, 42, 68-75.	0.3	1
987	Influence of organic plasticizers on sensory, physical-mechanical properties and chemical changes of biodegradable films. Eastern-European Journal of Enterprise Technologies, 2016, 6, 36-42.	0.5	1
988	Edible coating as factor of preserving freshness and increasing biological value of gingerbread cakes. HarÄova Nauka ì Tehnologìâ, 2016, 10, .	0.2	2
991	Biogene Kunststoff-Additive. , 2019, , 165-182.		O
992	Polymer Nanocomposite Matrices. , 2019, , 1-12.		1
993	Specialty Application of Functional Biopolymers. Polymers and Polymeric Composites, 2019, , 509-556.	0.6	1
994	A Comparative Study of Glycerol and Urea-Modified Polyvinyl Alcohol/Oil Palm Ash Biocomposite Films. Journal of Engineering Science, 2019, 15, 1-16.	0.4	1
995	Cellulose Nanocrystals in Food Packaging. , 2019, , 474-486.		O
996	Epoxidación enzimática de metil ésteres de ácidos grasos de origen vegetal y sus aplicaciones como alternativa para sustituir a los derivados del petróleo. TIP Revista Especializada En Ciencias QuÃmico-Biológicas, 0, 22, .	0.3	O
997	Comparison of Fructose and Glycerol as Plasticizers in Cassava Bioplastic Production. Advanced Journal of Graduate Research, 2019, 6, 41-52.	0.5	1

#	Article	IF	CITATIONS
998	DESENVOLVIMENTO DE FILMES ATIVOS BIODEGRADÃVEIS:FILMES DE AMIDO INCORPORADOS COM NANOPARTÃCULAS DE AMIDO E ÓLEO ESSENCIAL DE ORÉGANO. , 0, , .		0
999	Lentil By-products as a Source of Protein for Food Packaging Applications. American Journal of Food Technology, 2019, 15, 1-10.	0.2	1
1000	Films from an Aqueous Suspension of Alkaline Pretreated and Fine Milled Chicken Feathers. Materials Sciences and Applications, 2020, 11, 27-43.	0.4	0
1001	Preparation and Characterization of \hat{l}^2 -glucosidase Films for Stabilization and Handling in Dry Configurations. Current Pharmaceutical Biotechnology, 2020, 21, 741-747.	1.6	0
1002	Fall Risk Assessment Using New sEMC-Based Smart Socks. Intelligent Systems Reference Library, 2021, , 147-166.	1.2	0
1003	Edible Films on Meat and Meat Products. Coatings, 2021, 11, 1344.	2.6	25
1004	Comparative Study of Active Edible Coatings Based on Yam Starch and Cassava Starch. Revista EIA, 2020, 17, 1-13.	0.1	1
1005	Polyhydroxyalkanoates (PHAs) for the Fabrication of Filtration Membranes. Advances in Science, Technology and Innovation, 2021, , 177-195.	0.4	2
1006	Biobased Packaging from Food Industry Waste. , 2020, , 241-265.		2
1007	Biopolymers and Their Application in Wastewater Treatment. Microorganisms for Sustainability, 2020, , 245-266.	0.7	8
1008	Molecular Dynamics Simulation of Antimicrobial Permeable PVC-Based Films. Lecture Notes in Bioengineering, 2020, , 111-119.	0.4	0
1009	Biodegradable Mulch Film Technology and Harpin Protein for Quality Enhancement of Anna Apples During Cold Storage. Asian Journal of Crop Science, 2020, 12, 97-108.	0.2	0
1010	Chitosan/pullulan based films incorporated with clove essential oil loaded chitosan-ZnO hybrid nanoparticles for active food packaging. Carbohydrate Polymers, 2022, 277, 118866.	10.2	85
1011	Enhancing the properties of films prepared from the cataractous eye protein isolate (CEPI) for potential biomedical applications. Emergent Materials, 2022, 5, 621-629.	5.7	2
1012	Formulation and Development of Oral Fast-Dissolving Films Loaded with Nanosuspension to Augment Paroxetine Bioavailability: In Vitro Characterization, Ex Vivo Permeation, and Pharmacokinetic Evaluation in Healthy Human Volunteers. Pharmaceutics, 2021, 13, 1869.	4.5	29
1013	Boosting the mechanical strength and solubility-enhancement properties of hydroxypropyl-Î ² -cyclodextrin nanofibrous films. Drug Development and Industrial Pharmacy, 2021, , 1-11.	2.0	2
1014	A Glimpse of the World of Volatile Fatty Acids Production and Application: A review. Bioengineered, 2022, 13, 1249-1275.	3.2	43
1015	Formulation and process investigation of glycerol/starch suspensions for edible films production by tape casting. Chemical Papers, 0 , 1 .	2.2	1

#	Article	IF	CITATIONS
1016	A molecular view of plasticization of polyvinyl alcohol. Journal of Chemical Physics, 2021, 155, 174903.	3.0	3
1017	TAHIL BARLARININ FARKLI BİYOPOLİMERLER İLE YENİLEBİLİR KAPLANMASI: DEPOLAMA SÜRESİNCE KİMYASAL ÖZELLİKLER ÜZERİNE ETKİSİ. Gıda, 0, , 1019-1029.	FİZİKSI 0.4	EL VE
1018	Biodegradable Bio-based Plastics Toward Climate Change Mitigation. , 2021, , 1-43.		1
1019	Innovative bio-based materials for packaging sustainability. , 2022, , 173-192.		2
1020	Effect of plasticizers on drug-in-adhesive patches containing 5-fluorouracil. International Journal of Pharmaceutics, 2022, 611, 121316.	5.2	13
1021	Bio-packaging based on cellulose acetate from banana pseudostem and containing Butia catarinensis extracts. International Journal of Biological Macromolecules, 2022, 194, 32-41.	7.5	13
1022	Development of starch-based bioplastics of green plantain banana (Musa paradisiaca L.) modified with heat-moisture treatment (HMT). Food Packaging and Shelf Life, 2022, 31, 100776.	7.5	16
1024	Heat Transfer in Cassava Starch Biopolymers: Effect of the Addition of Borax. Polymers, 2021, 13, 4106.	4.5	7
1025	PREPARATION AND CHARACTERIZATION OF TRIFLUOPERAZINE LOADED TRANSDERMAL PATCHES FOR SUSTAINED RELEASE. International Journal of Applied Pharmaceutics, 0, , 186-191.	0.3	O
1026	A new approach to increasing the equilibrium swelling ratio of the composite superabsorbents based on carboxymethyl cellulose sodium salt. Cellulose, 2022, 29, 159-173.	4.9	8
1027	Bioactive Edible Films and Coatings Based in Gums and Starch: Phenolic Enrichment and Foods Application. Coatings, 2021, 11, 1393.	2.6	15
1029	Cold plasma enhanced natural edible materials for future food packaging: structure and property of polysaccharides and proteins-based films. Critical Reviews in Food Science and Nutrition, 2023, 63, 4450-4466.	10.3	10
1030	The role of betel (Piper betle) leaf extract and glycerol on physical properties of bioplastic based on sago starch. IOP Conference Series: Earth and Environmental Science, 2021, 912, 012042.	0.3	2
1031	Small molecule plasticizers for improved migration resistance: Investigation of branching and leaching behaviour in PVC blends. Materials Today Communications, 2021, 29, 102874.	1.9	11
1032	Levulinic acid-based bioplasticizers: a facile approach to enhance the thermal and mechanical properties of polyhydroxyalkanoates. Materials Advances, 2021, 2, 7869-7880.	5.4	14
1033	Zein as a versatile biopolymer: different shapes for different biomedical applications. RSC Advances, 2021, 11, 39004-39026.	3.6	32
1034	Morphology, Mechanical, and Water Barrier Properties of Carboxymethyl Rice Starch Films: Sodium Hydroxide Effect. Molecules, 2022, 27, 331.	3.8	7
1035	Development of novel biodegradable water chestnut starch/PVA composite film. Evaluation of plasticizer effect over physical, barrier, and mechanical properties. Journal of Food Processing and Preservation, 2022, 46, e16334.	2.0	6

#	Article	IF	CITATIONS
1036	Hydraulic Conductivity of Sand/Biopolymer-Amended Bentonite Backfills in Vertical Cutoff Walls Permeated with Lead Solutions. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2022, 148, .	3.0	25
1037	Chitosan nanoemulsion: Gleam into the futuristic approach for preserving the quality of muscle foods. International Journal of Biological Macromolecules, 2022, 199, 121-137.	7.5	10
1038	Soy-protein and corn-derived polyol based coatings for corrosion mitigation in reinforced concrete. Construction and Building Materials, 2022, 319, 126056.	7.2	10
1039	Copolymers of starch, a sustainable template for biomedical applications: A review. Carbohydrate Polymers, 2022, 278, 118973.	10.2	14
1040	Physicochemical properties and potential application of hemicellulose/pectin/nanocellulose biocomposites as active packaging for fatty foods. Food Packaging and Shelf Life, 2022, 31, 100795.	7.5	14
1041	Novel trends and applications of natural pH-responsive indicator film in food packaging for improved quality monitoring. Food Control, 2022, 134, 108769.	5.5	50
1042	Novel One-Step Process for the Production of Bioplastic from Rapeseed Press Cake. Processes, 2021, 9, 1498.	2.8	2
1043	Characterization of Sodium Alginate Membrane Plasticized by Polyols and Polyamine for DMFC Applications. Key Engineering Materials, 0, 908, 20-25.	0.4	1
1044	Predicting the Mechanical Response of Polyhydroxyalkanoate Biopolymers Using Molecular Dynamics Simulations. Polymers, 2022, 14, 345.	4.5	7
1045	Processing and Characterization of Bioplastics from the Invasive Seaweed Rugulopteryx okamurae. Polymers, 2022, 14, 355.	4.5	17
1046	Edible Films and Coatings: Major Challenges and Potential Applications in Food Packaging. A Review., 2022,, 187-224.		1
1047	Polysaccharide-based films of cactus mucilage and agar with antioxidant properties for active food packaging. Polymer Bulletin, 2022, 79, 11369-11388.	3.3	6
1048	Lipid-Based Edible Films and Coatings: A Review of Recent Advances and Applications. Journal of Packaging Technology and Research, 2022, 6, 11-22.	1.5	20
1049	Beneficiation of avocado processing industry by-product: A review on future prospect. Current Research in Green and Sustainable Chemistry, 2022, 5, 100253.	5. 6	20
1050	Nanocellulose: fascinating and sustainable nanomaterial for papermaking., 2022,, 389-407.		1
1051	Biodegradable Packaging Materials and Techniques to Improve Their Performance., 2022,, 61-105.		2
1052	Options to Improve the Mechanical Properties of Protein-Based Materials. Molecules, 2022, 27, 446.	3.8	12
1053	Preparation and characterization of bio-composite films obtained from coconut coir and groundnut shell for food packaging. Journal of Material Cycles and Waste Management, 2022, 24, 569-581.	3.0	9

#	ARTICLE	IF	CITATIONS
1054	Thermosets from renewable sources. , 2022, , 679-718.		0
1055	PBAT-based blends and composites. , 2022, , 327-354.		3
1056	Isolation and Identification of Cytotoxic Compounds Present in Biomaterial Life®. Materials, 2022, 15, 871.	2.9	0
1057	Impacts of Plasticizers on Riverine Ecological Integrity in Context to Sustainability Challenges. Emerging Contaminants and Associated Treatment Technologies, 2022, , 323-346.	0.7	2
1058	Effect of lowâ€pressure cold plasma on the properties of edible film based on alginate enriched with ⟨i⟩Dunaliella salina⟨/i⟩ powder. Plasma Processes and Polymers, 2022, 19, .	3.0	11
1059	An anti-freezing and anti-drying multifunctional gel electrolyte for flexible aqueous zinc-ion batteries. Science China Materials, 2022, 65, 2189-2196.	6.3	31
1060	Enhanced mechanical and gas barrier performance of plasticized cellulose nanofibril films. Nordic Pulp and Paper Research Journal, 2022, .	0.7	1
1061	Finding of novel lactate utilizing Bacillus sp. YHY22 and its evaluation for polyhydroxybutyrate (PHB) production. International Journal of Biological Macromolecules, 2022, 201, 653-661.	7.5	29
1062	Pyranoflavylium-cellulose acetate films and the glycerol effect towards the development of pH-freshness smart label for food packaging. Food Hydrocolloids, 2022, 127, 107501.	10.7	31
1064	Molecular dynamics simulations can predict the optimum drug loading amount in pectin hydrogels for controlled release. Materials Today Communications, 2022, 31, 103268.	1.9	8
1065	Effects of two fatty acids on soy protein isolate/sodium alginate edible films: Structures and properties. LWT - Food Science and Technology, 2022, 159, 113221.	5. 2	23
1066	The polymers and their additives in particulate plastics: What makes them hazardous to the fauna?. Science of the Total Environment, 2022, 824, 153828.	8.0	97
1067	Eudragit \hat{A}^{\otimes} L100/chitosan composite thin bilayer films for intravaginal pH-responsive release of Tenofovir. International Journal of Pharmaceutics, 2022, 616, 121554.	5.2	12
1068	Two-dimensional vanadium sulfide flexible graphite/polymer films for near-infrared photoelectrocatalysis and electrochemical energy storage. Chemical Engineering Journal, 2022, 435, 135131.	12.7	12
1069	Polyvinyl alcohol-based films plasticized with an edible sweetened gel enriched with antioxidant carminic acid. Journal of Food Engineering, 2022, 323, 111000.	5.2	19
1070	Algae bioprocess to deal with cosmetic chemical pollutants in natural ecosystems: A comprehensive review. Journal of Basic Microbiology, 2022, 62, 1083-1097.	3.3	8
1071	Animal- and Plant-Based Edible Food Packaging for Perishable Foodstuff. , 2022, , 39-85.		3
1072	Active biocomposite packaging films: Compatibility of carrageenan with cellulose nanofiber from empty fruit bunches., 2022,, 311-326.		O

#	Article	IF	CITATIONS
1073	Manifesting sustainable food packaging from biodegradable materials: A review. Environmental Quality Management, 2022, 32, 379-396.	1.9	2
1074	The Influence of Additives and Environment on Biodegradation of PHBV Biocomposites. Polymers, 2022, 14, 838.	4.5	9
1075	Comparative Effect of Different Plasticizers on Barrier, Mechanical, Optical, and Sorption Properties of Hydroxypropyl Methylcellulose (HPMC)–Based Edible Film. Journal of Biosystems Engineering, 2022, 47, 93-105.	2.5	8
1076	An overview on dry powder coating in advancement to electrostatic dry powder coating used in pharmaceutical industry. Powder Technology, 2022, 399, 117214.	4.2	5
1077	Self-powered low-range pressure sensor using biopolymer composites. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	10
1078	Development and Characterization of Edible Film Made from Mango Kernel Starch. Journal of Packaging Technology and Research, 2022, 6, 63-72.	1.5	3
1079	Improved Processability and Antioxidant Behavior of Poly(3-hydroxybutyrate) in Presence of Ferulic Acid-Based Additives. Bioengineering, 2022, 9, 100.	3. 5	4
1080	Processing-Structure-Properties Relationships of Glycerol-Plasticized Silk Films. Molecules, 2022, 27, 1339.	3.8	7
1081	Edible, Antioxiadant Films from Ultrasonically Extracted Plantago psyllium Seed Husk Flour Mucilage. Journal of Polymers and the Environment, 2022, 30, 2685-2694.	5.0	7
1082	Physico-chemical, <i>in-vitro</i> cytotoxicity and antimicrobial evaluation of L-valine functionalised CuO NPs on polyvinyl alcohol and blended carboxymethyl cellulose films. Indian Chemical Engineer, 2022, 64, 543-552.	1.5	8
1083	A Film of Chitosan Blended with Ginseng Residue Polysaccharides as an Antioxidant Packaging for Prolonging the Shelf Life of Fresh-Cut Melon. Coatings, 2022, 12, 468.	2.6	5
1084	A Review on Biodegradable Packaging Films from Vegetative and Food Waste. Chemical Record, 2022, 22, e202100326.	5.8	13
1085	Development and characterization of biodegradable film from marine red seaweed (<i>Kappaphycus) Tj ETQq0 0</i>	O rgBT /O	veglock 10 Tf
1086	Metal organic frameworks as advanced extraction adsorbents for separation and analysis in proteomics and environmental research. Science China Chemistry, 2022, 65, 650-677.	8.2	23
1087	Compatibilization of PLA grafted maleic anhydrate through blending of thermoplastic starch (TPS) and nanoclay nanocomposites for the reduction of gas permeability. International Journal of Smart and Nano Materials, 2022, 13, 130-151.	4.2	9
1088	Antioxidant activity of mango seed wax additive on the properties of poly(lactic acid) transparent films for food packaging application. Journal of Vinyl and Additive Technology, 2022, 28, 305-320.	3.4	10
1089	Water Vapour Transport in Biopolymeric Materials: Effects of Thickness and Water Vapour Pressure Gradient on Yeast Biomass-Based Films. Journal of Polymers and the Environment, 2022, 30, 2976-2989.	5.0	6
1090	Comparison of Protein Content, Availability, and Different Properties of Plant Protein Sources with Their Application in Packaging. Polymers, 2022, 14, 1065.	4.5	16

#	Article	IF	CITATIONS
1091	Disposable FFP2 and Type IIR Medical-Grade Face Masks: An Exhaustive Analysis into the Leaching of Micro- and Nanoparticles and Chemical Pollutants Linked to the COVID-19 Pandemic. ACS ES&T Water, 2022, 2, 527-538.	4.6	15
1092	Food physics insight: the structural design of foods. Journal of Food Science and Technology, 0, , 1.	2.8	0
1093	Biodegradation Behavior of Degradable Mulch with Poly (Butylene Adipate-co-Terephthalate) (PBAT) and Poly (Butylene Succinate) (PBS) in Simulation Marine Environment. Polymers, 2022, 14, 1515.	4.5	21
1094	Highly Flexible Polylactide Food Packaging Plasticized with Nontoxic, Biosourced Glycerol Plasticizers. ACS Applied Polymer Materials, 2022, 4, 3608-3617.	4.4	19
1095	A review on colorimetric indicators for monitoring product freshness in intelligent food packaging: Indicator dyes, preparation methods, and applications. Comprehensive Reviews in Food Science and Food Safety, 2022, 21, 2489-2519.	11.7	57
1096	Fabrication and Characterization of Bio-Nanocomposites Based on Halloysite-Encapsulating Grapefruit Seed Oil in a Pectin Matrix as a Novel Bio-Coating for Strawberry Protection. Nanomaterials, 2022, 12, 1265.	4.1	7
1097	Morphology development and mechanical properties of PLA/differently plasticized starch (TPS) binary blends in comparison with PLA/dynamically crosslinked "TPS+EVA―ternary blends. Polymer, 2022, 245, 124729.	3.8	10
1098	Incorporating tannin onto regenerated cellulose film towards sustainable active packaging. Industrial Crops and Products, 2022, 180, 114710.	5. 2	30
1099	Chemoenzymatic Epoxidation of Highly Unsaturated Fatty Acid Methyl Ester and Its Application as Poly(lactic acid) Plasticizer. ACS Sustainable Chemistry and Engineering, 2021, 9, 17016-17024.	6.7	9
1100	Combination of Green Extraction Techniques and Essential Oils to Develop Active Packaging for Improving the Quality and Shelf Life for Chicken Meat. Food Reviews International, 2023, 39, 3783-3805.	8.4	1
1101	Zein-Based Films Containing Monolaurin/Eugenol or Essential Oils with Potential for Bioactive Packaging Application. International Journal of Molecular Sciences, 2022, 23, 384.	4.1	8
1102	Sustainable Bioactive Packaging Based on Thermoplastic Starch and Microalgae. International Journal of Molecular Sciences, 2022, 23, 178.	4.1	10
1103	Cross-linker-free sodium alginate and gelatin hydrogels: a multiscale biomaterial design framework. Journal of Materials Chemistry B, 2022, 10, 3614-3623.	5.8	14
1104	Nitroxide mediated radical polymerization for the preparation of poly(vinyl chloride) grafted poly(acrylate) copolymers. Polymer Chemistry, 0, , .	3.9	0
1105	Stepwise copolymerization of polybenzimidazole for a low dielectric constant and ultrahigh heat resistance. RSC Advances, 2022, 12, 11885-11895.	3.6	6
1106	Orodispersible films of Ledipasvir and Sofosbuvir Combination: Formulation optimization and development using Design of Experiments. Asian Journal of Pharmaceutical Research, 2022, , 11-18.	1.6	2
1107	Glycerol as a Binder Additive for Low-Resistance Graphite Anodes in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2022, 169, 040558.	2.9	4
1108	Fabrication of Antibacterial Polyhydroxybutyrate/Lauric Acid Composite Membranes for Guided Bone Regeneration. Fibers and Polymers, 2022, 23, 1463-1474.	2.1	1

#	Article	IF	Citations
1109	Effect of neem gum on water sorption, biodegradability and mechanical properties of thermoplastic corn starch-based packaging films. Indian Chemical Engineer, 2022, 64, 594-606.	1.5	1
1111	Occurrence and behaviour of emerging organic contaminants in aquatic systems. , 2022, , 67-86.		1
1114	Effects of modified tributyl citrate as a novel environmentally friendly plasticizer on the mechanical property and migration stability of soft polyvinyl chloride. Journal of Vinyl and Additive Technology, 2022, 28, 751-761.	3.4	11
1115	Effect of boehmite alumina nanoparticles on the physical and chemical characteristics of eco-friendly sodium alginate/polyvinyl alcohol bio-nanocomposite film. International Journal of Polymer Analysis and Characterization, 2022, 27, 236-251.	1.9	1
1116	Ecological health risks of emerging organic contaminants. , 2022, , 215-242.		1
1117	Organic glass scintillator formulations and mold development towards scalable and cast-in-place pixelated fabrications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1036, 166835.	1.6	1
1118	Applications of Starch Biopolymers for a Sustainable Modern Agriculture. Sustainability, 2022, 14, 6085.	3.2	32
1119	Sustainable Green Methods for the Extraction of Biopolymers. Springer Series on Polymer and Composite Materials, 2022, , 73-110.	0.7	6
1120	Modification of Bioanodes from Different Nanocomposite Materials for Wastewater Bioremediation through Microbial Fuel Cells. ACS Symposium Series, 0, , 113-140.	0.5	1
1122	Biopolymer-Based Nanocomposites and Water Treatment: A Global Outlook. ACS Symposium Series, 0, , 25-42.	0.5	0
1123	Water Treatment with Biopolymer–Zeolite Nanocomposites. ACS Symposium Series, 0, , 75-111.	0.5	0
1125	Advanced Biopolymer-Based Nanocomposites: Current Perspective and Future Outlook in Electrochemical and Biomedical Fields. ACS Symposium Series, 0, , 341-354.	0.5	0
1126	Synthesis and Characterization of Hydrogels Derived from Cellulose of Water Hyacinth (<i>Eichornia crassipes</i>) and Chitosan Using the Freeze-Thaw Method. Materials Science Forum, 0, 1061, 91-96.	0.3	0
1127	An overview of patents and recent development in flexible supercapacitors. Journal of Energy Storage, 2022, 52, 104887.	8.1	22
1128	Biodegradable Bio-based Plastics Toward Climate Change Mitigation. , 2022, , 1987-2029.		0
1129	Effect of Calcium on the Rheological Properties of Polysaccharide from Abelmoschus Esculentus (Okra) Pod and its Application of Coating Preservation Technique for Postharvest Annona Squamosa. SSRN Electronic Journal, 0, , .	0.4	0
1130	Edible Bioactive Film with Curcumin: A Potential "Functional―Packaging?. International Journal of Molecular Sciences, 2022, 23, 5638.	4.1	12
1131	Agar Biopolymer Films for Biodegradable Packaging: A Reference Dataset for Exploring the Limits of Mechanical Performance. Materials, 2022, 15, 3954.	2.9	10

#	Article	IF	Citations
1132	Biorenewable Nanocomposite Materials for Wastewater Treatment. ACS Symposium Series, 0, , 281-311.	0.5	0
1133	Application of Biorenewable-Based Photocatalytic Membranes in Wastewater Treatment. ACS Symposium Series, 0, , 237-257.	0.5	0
1134	Biorenewable Nanocomposites as Highly Adsorptive and Potent Photocatalyst Materials for Producing Immaculate Water. ACS Symposium Series, 0, , 259-280.	0.5	0
1135	Green Nanocomposite Adsorbents for Dyes Removal. ACS Symposium Series, 0, , 165-188.	0.5	1
1136	Biorenewable Nanocomposite Materials in Membrane Separations. ACS Symposium Series, 0, , 189-235.	0.5	1
1137	Biorenewable Nanocomposite: Recent Advances and Its Prospects in Wastewater Remediation. ACS Symposium Series, 0, , 313-340.	0.5	0
1138	Green Synthesized Zinc-Based Nanocomposites for Environmental Remediation. ACS Symposium Series, 0, , 141-163.	0.5	2
1140	Carbonaceous Nanocomposites Derived from Waste Material for Wastewater Treatment. ACS Symposium Series, 0, , 43-73.	0.5	0
1141	Introduction to Biorenewable Nanocomposite Materials: Methods of Preparation, Current Developments, and Future Perspectives. ACS Symposium Series, 0, , 1-24.	0.5	5
1144	New Zinc-Based Active Chitosan Films: Physicochemical Characterization, Antioxidant, and Antimicrobial Properties. Frontiers in Chemistry, 0, 10 , .	3.6	6
1145	Effect of different molar ratios of choline chloride–citric acid monohydrate in deep eutectic solvents as plasticizers for Averrhoa bilimbi pectin films. Journal of Food Measurement and Characterization, 2022, 16, 3832-3843.	3.2	5
1146	Glycerol: Its properties, polymer synthesis, and applications in starch based films. European Polymer Journal, 2022, 175, 111377.	5.4	34
1147	Application and characterisation of industrial brewing byâ€products in biodegradable starchâ€based expanded composites. International Journal of Food Science and Technology, 2022, 57, 5523-5531.	2.7	5
1148	Characterization of Antimicrobial Composite Edible Film Formulated from Fermented Cheese Whey and Cassava Peel Starch. Membranes, 2022, 12, 636.	3.0	6
1149	Synthesizing High-Strength Biodegradable Polymer Film from Ethiopian False Banana Pseudo-Stem Using POSS and Chitosan as a Filler. Journal of Packaging Technology and Research, 2022, 6, 115-124.	1.5	2
1150	Edible Polymers and Secondary Bioactive Compounds for Food Packaging Applications: Antimicrobial, Mechanical, and Gas Barrier Properties. Polymers, 2022, 14, 2395.	4.5	20
1151	A comprehensive review on biocompatible film sensor containing natural extract: Active/intelligent food packaging. Food Control, 2022, 141, 109189.	5 . 5	31
1152	Biodegradable plastics as a substitute to traditional polythenes: a step toward a safer environment., 2022, , 193-215.		1

#	Article	IF	CITATIONS
1153	Global Trends in Natural Biopolymers in the 21st Century: A Scientometric Review. Frontiers in Chemistry, 0, 10 , .	3.6	9
1154	Spent coffee grounds: An intriguing biowaste reinforcement of thermoplastic starch with potential application in green packaging. Polymer Composites, 2022, 43, 5488-5499.	4.6	7
1155	Effect of Sulfamerazine on Structural Characteristics of Sodium Alginate Biopolymeric Films. Biotechnology and Bioprocess Engineering, 2022, 27, 596-606.	2.6	1
1156	Encapsulation of \hat{l}^2 -carotene into food-grade nanofibers via coaxial electrospinning of hydrocolloids: Enhancement of oxidative stability and photoprotection. Food Hydrocolloids, 2022, 133, 107949.	10.7	21
1157	Biodegradable Films from Spray Dried Starch Inclusion Complexes with Bioactive Compoundsâ€"The Effect of Glycerol and pH. Starch/Staerke, 2022, 74, .	2.1	1
1158	Chitosan-functionalized silica nanoparticles as a multifunctional coating material for improved water repellency, antimicrobial activity and mechanical strength of degradable bioplastics. Cellulose, 2022, 29, 7691-7701.	4.9	7
1159	Pilot-Scale Radio Frequency-Assisted Pasteurization of Chili Powders Prepacked by Different Packaging Films. Sustainability, 2022, 14, 9132.	3.2	4
1160	Optimization of Biocomposite Film Based on Whey Protein Isolate and Nanocrystalline Cellulose from Pineapple Crown Leaf Using Response Surface Methodology. Polymers, 2022, 14, 3006.	4.5	5
1161	Edible Films Based on Arrowroot (Maranta arundinaceae L.) Starch Incorporated with Licuri Oil (Syagrus coronata) and Tween 80. Journal of Polymers and the Environment, 0, , .	5.0	0
1163	Characterization of biofilms developed from alginate extracted from Padina sp. incorporated with calcium chloride (CaCl ₂). Journal of Physics: Conference Series, 2022, 2314, 012022.	0.4	3
1164	Food Packaging Materials with Special Reference to Biopolymers-Properties and Applications. Chemistry Africa, 2023, 6, 117-144.	2.4	35
1165	Improving the Processability and Performance of Micronized Fiber-Reinforced Green Composites through the Use of Biobased Additives. Polymers, 2022, 14, 3451.	4.5	3
1166	Rosin natural terpenes as processing aid for polyhydroxyalkanoate: Thermal, mechanical, and viscoelastic properties. Journal of Applied Polymer Science, 2022, 139, .	2.6	1
1167	Dual roles of sodium polyacrylate in alginate fiber wet-spinning: Modify the solution rheology and strengthen the fiber. Carbohydrate Polymers, 2022, 297, 120001.	10.2	6
1168	Innovative solutions and challenges to increase the use of Poly(3-hydroxybutyrate) in food packaging and disposables. European Polymer Journal, 2022, 178, 111505.	5.4	21
1169	Histological Evaluation of Cassava Starch/Chicken Gelatin Membranes. Polymers, 2022, 14, 3849.	4.5	0
1170	Finding a Benign Plasticizer to Enhance the Microbial Degradation of Polyhydroxybutyrate (PHB) Evaluated by PHB Degrader Microbulbifer sp. SOL66. Polymers, 2022, 14, 3625.	4.5	11
1171	The effect of polyethylene glycol-citric acid (PEG-Ca) addition on mechanical properties of dry bacterial cellulose film. AIP Conference Proceedings, 2022, , .	0.4	1

#	Article	IF	CITATIONS
1172	Recent trends in composite nanoemulsions for food packaging applications. , 2022, , 387-398.		0
1173	Fast quantification of water content in glycols by compact 1H NMR spectroscopy. Talanta, 2023, 253, 123973.	5.5	O
1174	Sargassum inspired, optimized calcium alginate bioplastic composites for food packaging. Food Hydrocolloids, 2023, 135, 108192.	10.7	21
1175	Chitosan films plasticized with choline-based deep eutectic solvents: UV shielding, antioxidant, and antibacterial properties. Food Hydrocolloids, 2023, 135, 108196.	10.7	35
1176	Potato starch-based bioplastics synthesized using glycerol–sorbitol blend as a plasticizer: characterization and performance analysis. International Journal of Environmental Science and Technology, 2023, 20, 7843-7860.	3.5	3
1177	Modulating superabsorbent polymer properties by adjusting the amphiphilicity. Frontiers in Chemistry, 0, 10, .	3.6	3
1178	Controlled Release of Tea Tree Oil from a Chitosan Matrix Containing Gold Nanoparticles. Polymers, 2022, 14, 3808.	4.5	1
1179	Assessing Molecular Docking Tools to Guide the Design of Polymeric Materials Formulations: A Case Study of Canola and Soybean Protein. Polymers, 2022, 14, 3690.	4.5	2
1180	Effect of oxidant on the epoxidation of methyl oleate over transition metal-based Al2O3 catalysts. Catalysis Today, 2023, 411-412, 113901.	4.4	2
1181	Deciphering the Plasticizers for the Development of Polysaccharide based Biodegradable Edible Coatings. Current Nutrition and Food Science, 2023, 19, 582-589.	0.6	3
1182	Revalorization of Microalgae Biomass for Synergistic Interaction and Sustainable Applications: Bioplastic Generation. Marine Drugs, 2022, 20, 601.	4.6	3
1183	Obtention of New Edible Biofilms from Water Kefir Grains in Comparison with Conventional Biofilms from Taro (Colocasia esculenta) and Cassava (Manihot esculenta) Starch. Processes, 2022, 10, 1804.	2.8	0
1184	Development and characterization of films based on okra polysaccharides and whey protein isolate. Journal of Food Measurement and Characterization, 2023, 17, 264-277.	3.2	4
1186	Material and Environmental Properties of Natural Polymers and Their Composites for Packaging Applications—A Review. Polymers, 2022, 14, 4033.	4.5	11
1187	Chitosan–Gelatin Films: Plasticizers/Nanofillers Affect Chain Interactions and Material Properties in Different Ways. Polymers, 2022, 14, 3797.	4.5	7
1188	Antimicrobial Functionalization of Prolamine–Silica Hybrid Coatings with Fumaric Acid for Food Packaging Materials and Their Biocompatibility. Antibiotics, 2022, 11, 1259.	3.7	3
1189	Reversible Tissue Sticker Inspired by Chemistry in Plant-Pathogen Relationship. Acta Biomaterialia, 2022, , .	8.3	0
1190	Formation of Robust and Adaptive Biopolymers via Non ovalent Supramolecular Interactions. Macromolecular Rapid Communications, 2023, 44, .	3.9	0

#	Article	IF	CITATIONS
1191	A review of biodegradable thermoplastic starches, their blends and composites: recent developments and opportunities for single-use plastic packaging alternatives. Green Chemistry, 2022, 24, 8606-8636.	9.0	44
1192	Isolation and identification of locally produce polyhydroxy butyrate from animal manure using scanning electron microscopy. AIP Conference Proceedings, 2022, , .	0.4	0
1193	Plant-Derived Biopolymers in Food Packaging: Current Status and Market Potential., 2022, , 13-40.		1
1194	Castor Oil and Cocoa Butter to Improve the Moisture Barrier and Tensile Properties of Pectin Films. Journal of Polymers and the Environment, 2023, 31, 312-326.	5.0	1
1195	Preliminary Study of κ-Carrageenan Based Membranes for Anti-Inflammatory Drug Delivery. Polymers, 2022, 14, 4275.	4.5	5
1196	Prediction of Plasticizer Property Based on an Improved Genetic Algorithm. Polymers, 2022, 14, 4284.	4.5	0
1197	Migration of Energetic Plasticizer in Advanced Energetic Composite Propellant Grains. Propellants, Explosives, Pyrotechnics, 2023, 48, .	1.6	5
1198	Realizing Intrinsically Stretchable Semiconducting Polymer Films by Nontoxic Additives. , 2022, 4, 2328-2336.		9
1199	3Dâ€Printed Prolamin Scaffolds for Cellâ€Based Meat Culture. Advanced Materials, 2023, 35, .	21.0	19
1200	Chitosan-based films with alternative eco-friendly plasticizers: Preparation, physicochemical properties and stability. Carbohydrate Polymers, 2023, 301, 120277.	10.2	8
1202	Synthesis of a new hydrophobic coating film from stearic acid of buffalo fat. Scientific Reports, 2022, 12, .	3.3	3
1203	In Vitro Degradation Behaviour of Chitosan-Based Blends by ATR-FTIR for Tissue Engineering Scaffolds: An Indirect Bioactivity Assay. Materials Horizons, 2022, , 219-233.	0.6	0
1204	3D-Printed Pectin/Carboxymethyl Cellulose/ZnO Bio-Inks: Comparative Analysis with the Solution Casting Method. Polymers, 2022, 14, 4711.	4.5	8
1205	Succinateâ€based plasticizers: Effect of plasticizer structure on the mechanical and thermal performance of poly(vinyl chloride) plastic formulations. Journal of Vinyl and Additive Technology, 2023, 29, 283-293.	3.4	1
1206	Algae-Based Bioplastic for Packaging: A Decade of Development and Challenges (2010–2020). Journal of Polymers and the Environment, 2023, 31, 833-851.	5.0	6
1207	Biodegradable biopolymers for active packaging: demand, development and directions., 2023, 1, 50-72.		33
1208	Preparation and Properties of Vegetable-Oil-Based Thioether Polyol and Ethyl Cellulose Supramolecular Composite Films. Journal of Renewable Materials, 2023, 11, 1937-1950.	2.2	1
1209	Tensile properties and antimicrobial activity of bioplastic based on sago starch utilized piper betel leaf. AIP Conference Proceedings, 2022, , .	0.4	0

#	Article	IF	CITATIONS
1210	Properties of edible coating made from clove and nutmeg essential oils applied for fresh-cut melon. AIP Conference Proceedings, 2022, , .	0.4	0
1211	Synthesis and Evaluation of Poly(3-hydroxypropyl Ethylene-imine) and Its Blends with Chitosan Forming Novel Elastic Films for Delivery of Haloperidol. Pharmaceutics, 2022, 14, 2671.	4.5	2
1212	Mimicked 2D Scaffolds in Articular Cartilage Surgery. Engineering Materials, 2023, , 181-189.	0.6	0
1213	Factors Influencing the Biodegradability of Agro-biopolymer Based Slow or Controlled Release Fertilizer. Journal of Polymers and the Environment, 2023, 31, 1706-1724.	5.0	5
1214	A Brief Evaluation of Antioxidants, Antistatics, and Plasticizers Additives from Natural Sources for Polymers Formulation. Polymers, 2023, 15, 6.	4.5	6
1215	Fabrication and Characterization Studies of Alginate Biocomposite Film for Potential Use in Food Sensing Application. Solid State Phenomena, 0, 339, 35-52.	0.3	0
1216	Bodyâ€Patchable, Antimicrobial, Encodable TENGs with Ultrathin, Freeâ€Standing, Translucent Chitosan/Alginate/Silver Nanocomposite Multilayers. Advanced Functional Materials, 2023, 33, .	14.9	12
1217	A road map on synthetic strategies and applications of biodegradable polymers. Polymer Bulletin, 2023, 80, 11507-11556.	3.3	1
1218	Finding of Novel Galactose Utilizing Halomonas sp. YK44 for Polyhydroxybutyrate (PHB) Production. Polymers, 2022, 14, 5407.	4.5	16
1219	Synthesis of a polyester plasticizer from rubber seed oil for polyvinyl chloride. Polish Journal of Chemical Technology, 2022, 24, 1-6.	0.5	1
1220	Biopolymers for packaging applications: An overview. Packaging Technology and Science, 2023, 36, 229-251.	2.8	10
1221	A better picker-upper: Superabsorbent "gel sheets―with fabric-like flexibility. Matter, 2023, 6, 521-536.	10.0	3
1222	Starch/Carrageenan Blend-Based Biocomposites as Packaging Materials. Composites Science and Technology, 2023, , 139-161.	0.6	1
1223	Immobilization of the metagenomic lipase, LipG9, on porous pellets of polyâ€hydroxybutyrate produced by the double emulsion solvent evaporation technique. Biotechnology and Applied Biochemistry, 0, , .	3.1	2
1224	Review of Bacterial Nanocellulose as Suitable Substrate for Conformable and Flexible Organic Light-Emitting Diodes. Polymers, 2023, 15, 479.	4.5	6
1225	Ultrasonic assisted extraction of polyphenols from bayberry by deep eutectic supramolecular polymer and its application in bio-active film. Ultrasonics Sonochemistry, 2023, 92, 106283.	8.2	6
1226	Impact of adding prebiotics and probiotics on the characteristics of edible films and coatings- a review. Food Research International, 2023, 164, 112381.	6.2	9
1227	Cellulose-based films with internal plasticization with epoxidized soybean oil. Cellulose, 2023, 30, 1823-1840.	4.9	3

#	Article	IF	CITATIONS
1228	The Influence of Plasticizers and Accelerated Ageing on Biodegradation of PLA under Controlled Composting Conditions. Polymers, 2023, 15, 140.	4.5	13
1229	Conversion of Free Fatty Acid in Calophyllum inophyllum Oil to Fatty Acid Ester as Precursor of Bio-Based Epoxy Plasticizer via SnCl2–Catalyzed Esterification. Polymers, 2023, 15, 123.	4.5	1
1230	Advances in green solvents for production of polysaccharideâ€based packaging films: Insights of ionic liquids and deep eutectic solvents. Comprehensive Reviews in Food Science and Food Safety, 2023, 22, 1030-1057.	11.7	15
1231	Characterization of chitosan edible coatings made with natural extracts of Solanum lycopersicum and Moringa oleifera for preserving fresh pork tenderloin. Journal of Food Measurement and Characterization, 0, , .	3.2	O
1232	Cellulose fiber-reinforced polymer composites as packaging materials. , 2023, , 283-316.		0
1233	Advanced functional nanomaterials of biopolymers: Structure, properties, and applications., 2023,, 521-557.		0
1234	Properties and Food Packaging Applications of Solvent Castingâ€Made Starchâ€Based Films Incorporated with Essential Oils: A Review. Starch/Staerke, 2023, 75, .	2.1	0
1235	Biodegradable polymers- a greener approach for food packaging. , 2023, , 317-369.		4
1236	Naturally Multicomponent Materials Obtained from Filamentous Fungi: Impact of Different Cell Rupture Treatment on Film Properties. Journal of Polymers and the Environment, 2023, 31, 2347-2363.	5.0	2
1237	Chitosan/Phenolic Compounds Scaffolds for Connective Tissue Regeneration. Journal of Functional Biomaterials, 2023, 14, 69.	4.4	6
1238	Utilization of chemical additives to enhance biodegradability of plastics., 2023,, 259-281.		1
1239	Biodegradable Hybrid Polymer Film for Packaging: A Review. Journal of Natural Fibers, 2023, 20, .	3.1	9
1240	Biodegradation of synthetic PVP biofilms using natural materials and nanoparticles. Green Processing and Synthesis, 2023, 12, .	3.4	2
1241	PLASTICIZER TYPES., 2023,, 9-104.		1
1242	Part A: Biodegradable Bio-Composite Film Reinforced with Cellulose Nanocrystals from Chaetomorpha linum into Thermoplastic Starch Matrices. Polymers, 2023, 15, 1542.	4.5	5
1243	Sustainable nanocomposite porous absorbent and membrane sieves: Definition, classification, history, properties, synthesis, applications, and future prospects. Journal of Environmental Chemical Engineering, 2023, 11, 109367.	6.7	4
1245	Enhanced migration of plasticizers from polyvinyl chloride consumer products through artificial sebum. Science of the Total Environment, 2023, 874, 162412.	8.0	1
1246	Recent progress of bioplastics in their properties, standards, certifications and regulations: A review. Science of the Total Environment, 2023, 878, 163156.	8.0	23

#	Article	IF	CITATIONS
1247	Kombucha fermentation in yerba mate: Cellulose production, films formulation and its characterisation. Carbohydrate Polymer Technologies and Applications, 2023, 5, 100310.	2.6	0
1248	Temperature responsive crosslinked starch-kraft lignin macromolecule. Carbohydrate Polymers, 2023, 313, 120846.	10.2	3
1249	Development and Characterization of Bio-Composite Films Made from Bacterial Cellulose Derived from Oil Palm Frond Juice Fermentation, Chitosan and Glycerol. Trends in Sciences, 2023, 20, 4919.	0.5	0
1250	Stabilization and Valorization of Beer Bagasse to Obtain Bioplastics. Polymers, 2023, 15, 1877.	4.5	4
1252	Determination of partition coefficients of phthalic acid esters between polydimethylsiloxane and water and its field application to surface waters. Journal of Hazardous Materials, 2023, 448, 130933.	12.4	3
1253	Towards ductile single-step polyelectrolyte complex films by means of plasticization. Progress in Organic Coatings, 2023, 177, 107459.	3.9	0
1254	Self-Supported Biopolymeric Films Based on Onion Bulb (Allium cepa L.): Gamma-Radiation Effects in Sterilizing Doses. Polymers, 2023, 15, 914.	4.5	1
1255	Thermal Properties of Biopolymers. , 2023, , 1-28.		0
1256	Soy Protein Biopolymer. , 2023, , 1-26.		0
1257	The Integration of Biopolymer-Based Materials for Energy Storage Applications: A Review. International Journal of Molecular Sciences, 2023, 24, 3975.	4.1	6
1259	Potential Perspectives and Sustainability of Bioplastics Developed from Horticulture., 2023, 14, .		0
1260	Bioconversion of Rice Husk as a Potential Feedstock for Fermentation by Priestia megaterium POD1 for the Production of Polyhydroxyalkanoate. Waste and Biomass Valorization, $0,$	3.4	1
1261	Optimization of Whey Protein-Based Films Incorporating Foeniculum vulgare Mill. Essential Oil. Journal of Functional Biomaterials, 2023, 14, 121.	4.4	5
1262	Multiproduct biorefinery from defatted olive mill waste: preparation of hemicellulose-based biodegradable films and instant controlled pressure drop (DIC)-assisted isolation of value-added products. Biomass Conversion and Biorefinery, 0, , .	4.6	0
1263	Electrostatically Complexed Natural Polysaccharides as Aqueous Barrier Coatings for Sustainable and Recyclable Fiber-Based Packaging. ACS Applied Materials & Samp; Interfaces, 2023, 15, 12248-12260.	8.0	4
1264	Effect of storage time on the antimicrobial properties of chitosan. Journal of Vinyl and Additive Technology, 0, , .	3.4	0
1265	An Imidazolium-Based Ionic Liquid as a Model to Study Plasticization Effects on Cationic Polymethacrylate Films. Polymers, 2023, 15, 1239.	4.5	2
1266	Understanding the balance between additives' miscibility and plasticisation effect in polymer composites: a computational study. Soft Matter, 2023, 19, 2377-2384.	2.7	0

#	Article	IF	CITATIONS
1267	The Glass Transition Temperature of Heterogeneous Biopolymer Systems. Biomacromolecules, 2023, 24, 1627-1637.	5.4	4
1268	Assessment of Heavy Metal(oid)s Accumulation in Eggplant and Soil under Different Irrigation Systems. Water (Switzerland), 2023, 15, 1049.	2.7	2
1269	Rice thermoplastic starch nanocomposite films reinforced with nanocellulose. ChemistrySelect, 2024, 9, 1131-1147.	1.5	0
1270	Cellulose Acetate Microbeads for Controlled Delivery of Essential Micronutrients. ACS Sustainable Chemistry and Engineering, 2023, 11, 4749-4758.	6.7	3
1271	Bilayer Films of Poly(lactic acid) and Cottonseed Protein for Packaging Applications. Polymers, 2023, 15, 1425.	4.5	2
1272	Chemical modification of protein-based biopolymers for application in food packaging. , 2023, , 23-58.		0
1273	Characterization of biobased materials. , 2023, , 111-143.		0
1274	Use of biobased materials from agro-industrial residues in food packaging. , 2023, , 173-229.		1
1275	Understanding Marine Biodegradation of Bio-Based Oligoesters and Plasticizers. Polymers, 2023, 15, 1536.	4.5	2
1276	The Biomodified Lignin Platform: A Review. Polymers, 2023, 15, 1694.	4.5	11
1278	Disentangling Current Challenges to Weave the Future of Sustainable Textiles. Accounts of Materials Research, 2023, 4, 385-388.	11.7	1
1279	Chitosan nanoemulsion: A sustainable approach for quality preservation of fish and fishery foods. Food Control, 2023, 151, 109790.	5.5	2
1280	Mechanical, chemical, and bio-recycling of biodegradable plastics: A review. Science of the Total Environment, 2023, 882, 163446.	8.0	35
1281	Production of Environmentally Bioplastics As Packaging Materials For Teaching Factory Products at State Polytechnic of Jember. IOP Conference Series: Earth and Environmental Science, 2023, 1168, 012033.	0.3	0
1282	A Quenched Doubleâ∈Hydrophilic Coating for the Enhancement of Water Retention of Hydrogels. Advanced Functional Materials, 2023, 33, .	14.9	3
1284	Au-Ag NPs embedded Sago Starch-Sodium Alginate composites: An investigation of structural, thermal and dielectric properties for applications in flexible electronic devices. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2023, 293, 116495.	3.5	1
1285	Synthesis Methods of Superabsorbent Polymers and Factors Affecting Their Preparation., 2023, , 19-39.		0
1286	A comparative assessment of the use of suitable analytical techniques to evaluate plasticizer compatibility. Journal of Applied Polymer Science, 2023, 140, .	2.6	3

#	Article	IF	CITATIONS
1287	Effects of different ratios of mannitol to sorbitol on the functional properties of sweet potato starch films. International Journal of Biological Macromolecules, 2023, 242, 124914.	7.5	8
1288	Soy Protein Biopolymer. , 2023, , 175-200.		O
1289	Thermal Properties of Biopolymers. , 2023, , 269-296.		0
1290	Thermoplastic starch/bentonite clay nanocomposite reinforced with vitamin B2: Physicochemical characteristics and release behavior. International Journal of Biological Macromolecules, 2023, 242, 124742.	7.5	1
1291	On the Effect of Monomeric and Polymeric Plasticizer on Polybutylene Succinate (PBS), Polyhydroxybutyrate (PHB), and Polylactic Acid (PLA) Films with 20wt%PCL for Flexible Packaging Application. Materials Science Forum, 0, 1087, 3-12.	0.3	0
1292	Evaluation of physiochemical, mechanical, thermal, UV barrier, and biodegradation properties of PVA/corn (Zea mays) cob powder biofilms. Biomass Conversion and Biorefinery, 0, , .	4.6	4
1293	Systematic evaluation of a sustainable plasticizer derived from coconut shell bio-waste in a reinforced styrene butadiene copolymer system. Journal of Polymer Research, 2023, 30, .	2.4	1
1294	Multi-Component Biodegradable Materials Based on Water Kefir Grains and Yeast Biomasses: Effect of the Mixing Ratio on the Properties of the Films. Polymers, 2023, 15, 2594.	4.5	1
1295	Antimicrobial and Antioxidant Edible Films and Coatings in the Shelf-Life Improvement of Chicken Meat. Foods, 2023, 12, 2308.	4.3	6
1296	Ultraviolet (UV) curable hybrid material based on palm oil: plasticization effect and flame retardancy. Polymers and Polymer Composites, 2023, 31, .	1.9	0
1297	Biocompatibility evaluation of nano-hydroxyapatite modified hydroxypropyl methylcellulose/polyvinylpyrrolidone blends. Polymer Bulletin, 2024, 81, 3439-3458.	3.3	0
1298	The effects of polylactic acid-whey protein isolated bi-layer film incorporated with ZnO nanoparticles on the quality of common carp Cyprinus carpio. Journal of Food Measurement and Characterization, 0, , .	3.2	1
1299	Highly Ductile Cellulose-Rich Papers Obtained by Ultrasonication-Assisted Incorporation of Low Molecular Weight Plasticizers. ACS Sustainable Chemistry and Engineering, 2023, 11, 8836-8846.	6.7	0
1300	Tailoring the performance of nanocellulose-based multilayer-barrier paperboard using biodegradable-thermoplastics, pigments, and plasticizers. Cellulose, 2023, 30, 6945-6958.	4.9	0
1301	Environmental Aspect Concerning Phthalates Contamination: Analytical Approaches and Assessment of Biomonitoring in the Aquatic Environment. Environments - MDPI, 2023, 10, 99.	3.3	4
1302	A Brief Review of Sustainable Composites for Food Packaging Applications. Management and Industrial Engineering, 2023, , 119-130.	0.4	0
1303	Further Step in the Transition from Conventional Plasticizers to Versatile Bioplasticizers Obtained by the Valorization of Levulinic Acid and Glycerol. ACS Sustainable Chemistry and Engineering, 2023, 11, 9455-9469.	6.7	3
1304	Development of sodium alginate-pectin biodegradable active food packaging film containing cinnamic acid. Chemosphere, 2023, 336, 139212.	8.2	16

#	ARTICLE	IF	CITATIONS
1305	Enhancement of mechanical, rheological and antifungal properties of polylactic acid/ethylene–vinyl-acetate blend by triacetin plasticizer. Journal of Polymer Research, 2023, 30, .	2.4	1
1306	Phthalate exposure and the metabolic syndrome: A systematic review and meta-analysis. Environmental Pollution, 2023, 333, 121957.	7.5	4
1307	3D printed composite dressings loaded with human epidermal growth factor for potential chronic wound healing applications. Journal of Drug Delivery Science and Technology, 2023, 86, 104684.	3.0	2
1308	Ocular delivery of felodipine for the management of intraocular pressure and inflammation: Effect of film plasticizer and in vitro in vivo evaluation. International Journal of Pharmaceutics, 2023, 642, 123153.	5.2	2
1309	The effect of additional orange Pangkep (Citrus maxima) peel oil on characteristics and microbial inhibition of corn flour-based edible film. IOP Conference Series: Earth and Environmental Science, 2023, 1200, 012039.	0.3	O
1310	Biopolymers as sustainable alternatives in the food packaging industry. , 2023, , 227-258.		0
1311	Silica nanoparticles loaded with caffeic acid to optimize the performance of cassava starch/sodium carboxymethyl cellulose film for meat packaging. International Journal of Biological Macromolecules, 2023, 241, 124591.	7.5	7
1312	Preparation of Surgical Thread from a Bioplastic Based on Nopal Mucilage. Polymers, 2023, 15, 2112.	4.5	0
1313	Lead (II) ion removal using a cellulose acetate-PEG membrane from water hyacinth (Eichhornia) Tj ETQq0 0 0 rgBT	/8verlock	10 Tf 50 42
1315	Enhancing Pullulan Soft Capsules with a Mixture of Glycerol and Sorbitol Plasticizers: A Multi-Dimensional Study. Polymers, 2023, 15, 2247.	4.5	3
1316	Thermomechanical Properties of Nontoxic Plasticizers for Polyvinyl Chloride Predicted from Molecular Dynamics Simulations. ACS Applied Materials & Samp; Interfaces, 2023, 15, 24858-24867.	8.0	4
1317	Influence of Paprika Oleoresin Addition on the Structural Properties of Soy Protein Isolate Films. Food and Bioprocess Technology, 0, , .	4.7	0
1318	Optical Anisotropy and Dimple Formation on Films Formed after Drying of Gelatinized Starch Solution Droplets. ACS Omega, 2023, 8, 19994-20003.	3.5	1
1319	Suitability study of novel Bio-plasticizer from Agave sisalana leaf for biofilm applications: a biomass to biomaterial approach. Biomass Conversion and Biorefinery, 0, , .	4.6	5
1320	Optimization of bioplastic synthesis from carboxymethyl cellulose-keratin. AIP Conference Proceedings, 2023, , .	0.4	0
1321	A novel approach to plasticizer content calculation in an acrylonitrile-butadiene rubber real-time aging study (NBR). Polymer Testing, 2023, 124, 108091.	4.8	1
1322	Edible Film Casting Techniques and Materials and Their Utilization for Meat-Based Product Packaging. Polymers, 2023, 15, 2800.	4.5	4
1323	Synthesis and properties of chlorine and phosphorus containing rubber seed oil as a second plasticizer for flame retardant polyvinyl chloride materials. Polish Journal of Chemical Technology,	0.5	0

#	Article	IF	CITATIONS
1324	Biorefinery concept in the meat industry: From slaughterhouse biowastes to superaborbent materials. Chemical Engineering Journal, 2023, 471, 144564.	12.7	1
1325	Cellulose-Based Ionic Conductor: An Emerging Material toward Sustainable Devices. Chemical Reviews, 2023, 123, 9204-9264.	47.7	30
1326	Films for Wound Healing Fabricated Using a Solvent Casting Technique. Pharmaceutics, 2023, 15, 1914.	4.5	14
1328	Modulation of physicochemical properties and antimicrobial activity of sodium alginate films through the use of chestnut extract and plasticizers. Scientific Reports, 2023, 13, .	3.3	8
1329	Edible Packaging: A Technological Update for the Sustainable Future of the Food Industry. Applied Sciences (Switzerland), 2023, 13, 8234.	2.5	6
1330	Recent advances of proteins extracted from agricultural and livestock wastes in biodegradable textile sizing applications. Chemical Engineering Research and Design, 2023, 177, 699-710.	5.6	2
1331	Algae as an additive to improve the functional and mechanical properties of protein and polysaccharide-based films and coatings. A review of recent studies. Food Packaging and Shelf Life, 2023, 38, 101128.	7.5	1
1332	Comparative toxicity of conventional versus compostable plastic consumer products: An in-vitro assessment. Journal of Hazardous Materials, 2023, 459, 132123.	12.4	3
1333	Novel application of pineapple peel pectin extract film as active edible coating on quality of dried pineapple. International Journal of Food Science and Technology, 2023, 58, 5066-5076.	2.7	4
1334	Highly Enhanced Mechanical, Thermal, and Crystallization Performance of PLA/PBS Composite by Glass Fiber Coupling Agent Modification. Polymers, 2023, 15, 3164.	4.5	3
1335	Isolation of Two Plasticizers, Bis(2â€ethylhexyl) Terephthalate and Bis(2â€ethylhexyl) Phthalate, from <i>Capparis spinosa</i> L. Leaves. Chemistry and Biodiversity, 2023, 20, .	2.1	0
1336	Seaweed polysaccharide coatings/films for meat based foods. , 2023, 1, 777-792.		0
1337	Mechanically promoted lipid-based filaments via composition tuning for extrusion-based 3D-printing. International Journal of Pharmaceutics, 2023, 643, 123279.	5.2	0
1338	Evaluation of spherulite growth in <scp>PHB</scp> â€based systems – A <scp>DoE</scp> approach. Journal of Applied Polymer Science, 2023, 140, 1-17.	2.6	1
1339	PBAT/corn zein ester blends: Rheology, morphology, and physicochemical properties. Polymer, 2023, 283, 126258.	3.8	4
1340	Polyhydroxybutyrate (PHB) production from sugar cane molasses and tap water without sterilization using novel strain, Priestia sp. YH4. International Journal of Biological Macromolecules, 2023, 250, 126152.	7.5	6
1341	Green Additives in Chitosanâ€Based Bioplastic Films: Physical, Mechanical, and Chemical Properties. ChemSusChem, 2023, 16, .	6.8	0
1342	Personal Protective Equipment as a Potential Source of Phthalate Exposure during the COVID-19 Pandemic. Applied Sciences (Switzerland), 2023, 13, 9076.	2.5	0

#	Article	IF	CITATIONS
1343	A Novel Approach about Edible Packaging Materials Based on Oilcakes—A Review. Polymers, 2023, 15, 3431.	4.5	3
1344	Development and Characterization of Bio-Based Composite Films for Food Packing Applications Using Boiled Rice Water and Pistacia vera Shells. Polymers, 2023, 15, 3456.	4.5	3
1345	Chewing gum base: A comprehensive review of composition, production, and assessment methods: Advances and approaches in biodegradability. Journal of Texture Studies, 2023, 54, 789-807.	2.5	0
1346	Adhesion performance of highly biobased latex copolymers from isobornyl methacrylate and plant oil-based acrylic monomers. Green Materials, 0, , 1-12.	2.1	0
1347	Packaging films based on biopolymers from seafood processing wastes: Preparation, properties, and their applications for shelfâ€ife extension of seafoods—A comprehensive review. Comprehensive Reviews in Food Science and Food Safety, 2023, 22, 4451-4483.	11.7	3
1348	Recent advances in bio-based functional additives for polymers. Progress in Materials Science, 2023, 139, 101186.	32.8	5
1349	Sustainable Bioplastics for Food Packaging Produced from Renewable Natural Sources. Polymers, 2023, 15, 3760.	4.5	1
1350	Biopolymer conjugation with phytochemicals and applications. ChemistrySelect, 2023, .	1.5	O
1351	Tailoring the optical and mechanical properties of cellulose nanocrystal film by sugar alcohols and its pH/humidity-responsive behavior. International Journal of Biological Macromolecules, 2023, 253, 127316.	7.5	0
1352	Degradable Elastomeric Silk Biomaterial for Flexible Bioelectronics. ACS Applied Bio Materials, 2023, 6, 4392-4402.	4.6	0
1353	Effect of storage conditions on physicochemical, barrier, mechanical and structural characteristics of Eremurus luteus root gum edible film. Journal of Food Measurement and Characterization, 0, , .	3.2	0
1354	Mechanical properties and antioxidant activity of carrageenan-cellulose nanofiber incorporated butylated hydroxyanisole as active food packaging. Materials Today: Proceedings, 2023, , .	1.8	1
1355	Effect of a keratin coupling agent on the mechanical properties of a bovine hair-thermoplastic starch composite. Materials Chemistry and Physics, 2023, 308, 128266.	4.0	0
1357	Developing a pachyman/polyvinyl alcohol-polylactic acid bilayer film as multifunctional packaging and its application in cherry tomato preservation. LWT - Food Science and Technology, 2023, 186, 115249.	5.2	1
1358	Synthesis and performance evaluation of novel soybean oilâ€based plasticisers for polyvinyl chloride (<scp>PVC</scp>). Journal of Applied Polymer Science, 2023, 140, .	2.6	0
1359	Recent advances in pH-sensitive indicator films based on natural colorants for smart monitoring of food freshness: a review. Critical Reviews in Food Science and Nutrition, 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0	10.3	0
1360	A Review of the Effect of Plasticizers on the Physical and Mechanical Properties of Alginate-Based Films. Molecules, 2023, 28, 6637.	3.8	4
1362	Correlation between filament deposition path, microstructural and mechanical properties of dense alumina parts printed by robocasting. Journal of the European Ceramic Society, 2023, , .	5.7	0

#	Article	IF	CITATIONS
1363	Enzyme pretreatments for anaerobic co-digestion of food waste blended with bioplastics: Effects on methane production and microbial community structure. New Journal of Chemistry, 0, , .	2.8	0
1364	Current scenario and global perspectives of citrus fruit waste as a valuable resource for the development of food packaging film. Trends in Food Science and Technology, 2023, 141, 104190.	15.1	0
1365	Strengthening and permeability control in sand using Cr3+-crosslinked xanthan gum biopolymer treatment. Transportation Geotechnics, 2023, 43, 101122.	4.5	0
1366	Influence of glycerol, eggshells, and genipin on hydrophobicity and rigidity of antioxidant locust bean milling dust-derived bioplastics. LWT - Food Science and Technology, 2023, 188, 115409.	5. 2	1
1367	A novel salt-barrier method of preparation flexible temperature resistant full-component nanocellulose membranes. International Journal of Biological Macromolecules, 2023, 253, 127387.	7. 5	2
1368	Recent Trends in Edible Packaging for Food Applications — Perspective for the Future. Food Engineering Reviews, 2023, 15, 718-747.	5.9	7
1369	Nanoemulsion based edible coatings for quality retention of fruits and vegetables-decoding the basics and advancements in last decade. Environmental Research, 2024, 240, 117450.	7. 5	2
1370	Feasibility of bioplastic production using micro- and macroalgae- A review. Environmental Research, 2024, 240, 117465.	7.5	4
1371	Incorporation of papaya (Carica papaya L.) leaf extract into cornhusk for glutinous rice snack packaging application., 2023, 30, 1221-1234.		0
1372	Facilitating the additive manufacture of high-performance polymers through polymer blending: A review. European Polymer Journal, 2023, 201, 112553.	5.4	2
1373	Characterization of bioplastics developed from whole seaweed biomass (Kappaphycus sp.) added with commercial sodium alginate. Journal of Applied Phycology, 0, , .	2.8	0
1374	Optimizing biodegradable plastics: Molecular dynamics insights into starch plasticization with glycerol and oleic acid. Journal of Molecular Graphics and Modelling, 2024, 126, 108674.	2.4	0
1375	PBSeT/lignin: A complete bio-based biodegradable plastic with excellent mechanical and anti-UV properties. European Polymer Journal, 2024, 203, 112638.	5.4	1
1376	Starch Films Plasticized by Imidazolium-Based Ionic Liquids: Effect of Mono- and Dicationic Structures and Different Anions. ACS Applied Polymer Materials, 2023, 5, 8859-8868.	4.4	1
1377	Techno-functional characteristics, and potential applications of edible coatings: A comprehensive review. Journal of Agriculture and Food Research, 2023, 14, 100886.	2.5	0
1378	Root-Knot Disease Complex: An Interactive Perspective with Microorganisms. , 2023, , 237-251.		0
1379	An overview of green and sustainable polymeric coatings. Surface Innovations, 0, , 1-14.	2.3	1
1380	Edible Carrageenan Films Reinforced with Starch and Nanocellulose: Development and Characterization. Sustainability, 2023, 15, 15817.	3.2	O

#	ARTICLE	IF	CITATIONS
1381	Effect of glycerin as a plasticizer on flexural strength in the fabrication of gypsum-based chip. F1000Research, 0, 12, 1460.	1.6	0
1383	Effect of plasticizer composition on the properties of injection molded cassava starch-based bioplastics. Food Packaging and Shelf Life, 2023, 40, 101218.	7.5	2
1384	Biosynthesis of sustainable biodegradable bioplastics using alginate extracted from Padina pavonica, optimization and characterization. Algal Research, 2023, 76, 103325.	4.6	1
1385	Thermoâ€mechanical and antioxidant properties of eugenolâ€loaded carrageenanâ€cellulose nanofiber films for sustainable packaging applications. Journal of Applied Polymer Science, 2024, 141, .	2.6	0
1386	Biopolymers as Antibacterial and Antiviral Agents. ACS Symposium Series, 0, , 65-109.	0.5	0
1387	Photomodulation of the Mechanical Properties and Photoâ€Actuation of Chitosanâ€Based Thin Films Modified with an Azobenzeneâ€Derivative. Small, 0, , .	10.0	0
1388	Sustainable chitosan nanoemulsion coatings/films with agri-food byproducts: advances, composition, production methods and applications in food preservation. Journal of Food Measurement and Characterization, 2024, 18, 1627-1649.	3.2	0
1389	Reinvestigating the science and engineering behind the architectural marvels of Ahom dynasty in pre-colonial Assam (1228–1826 CE). Indian Journal of History of Science, 0, , .	0.2	0
1390	Exploring novel organocatalytic-acetylated pea starch blends in the development of hot-pressed bioplastics. International Journal of Biological Macromolecules, 2024, 258, 128740.	7. 5	1
1391	TMSCl Promoted Direct Conversion of Cyclic Anhydrides to (Un)Symmetricâ€Diesters/Amide Esters. Chemistry - an Asian Journal, 2024, 19, .	3.3	0
1392	Effects of Acetyl Tributyl Citrate on the Mechanical Properties, Abrasion Resistance, and Cytotoxicity of the Light-Cured 3D Printing Polyurethane Resins. 3D Printing and Additive Manufacturing, 0, , .	2.9	0
1393	Optimization of Bioplastic Film from Kapok Cellulose Production at Different Acetylation. Journal of Polymers and the Environment, 0, , .	5.0	1
1394	Development of starch film to realize the value-added utilization of starch in food and biomedicine. Food Bioscience, 2024, 57, 103521.	4.4	0
1395	Cold plasma treatment of tannic acid as a green technology for the fabrication of advanced cross-linkers for bioactive collagen/gelatin hydrogels. International Journal of Biological Macromolecules, 2024, 258, 128870.	7.5	0
1396	Effect of tea polyphenols on chitosan packaging for food preservation: Physicochemical properties, bioactivity, and nutrition. International Journal of Biological Macromolecules, 2024, 259, 129267.	7.5	1
1397	OLIVE LEAF EXTRACT INCORPORATED CHITOSAN FILMS FOR ACTIVE FOOD PACKAGING. , 2023, 11, 1061-1072.		0
1401	Optimasi formula nori like product dari Ulva spp., Gracilaria sp. dan gliserol menggunakan metode mixture design. Jurnal Pengolahan Hasil Perikanan Indonesia, 2023, 26, 433-447.	0.3	0
1402	Copper ions reinforced flexible carboxymethylcellulose/polyethyleneimine composite films with enhanced mechanical properties, UV-shielding performance, thermal stability, solvent resistance, and antibacterial activity. International Journal of Biological Macromolecules, 2024, 259, 129281.	7.5	O

#	Article	IF	CITATIONS
1403	Green3: A green extraction of green additives for green plastics. Heliyon, 2024, 10, e24469.	3.2	О
1404	Development of carrageenan-immobilized lytic coliphage vB_Eco2571-YU1 hydrogel for topical delivery of bacteriophages in wound dressing applications. International Journal of Biological Macromolecules, 2024, 259, 129349.	7.5	1
1405	Citrus Waste Upcycling toward Pectin Moisturizer Films Plasticized with Glycerol and Polyethylene Glycol., 2024, 1, 213-224.		0
1406	Effect of plasticizer, molecular weight, and cross-linking agent on glass transition temperature of polymer composites. , 2024, , 217-239.		O
1408	A Review of the Current and Future Prospects for Producing Bioplastic Films Made from Starch and Chitosan. ACS Sustainable Chemistry and Engineering, 2024, 12, 1750-1768.	6.7	0
1409	Ionic Liquids as Designed, Multi-Functional Plasticizers for Biodegradable Polymeric Materials: A Mini-Review. International Journal of Molecular Sciences, 2024, 25, 1720.	4.1	0
1410	Experimentally Determined Hansen Solubility Parameters of Biobased and Biodegradable Polyesters. ACS Sustainable Chemistry and Engineering, 2024, 12, 2386-2393.	6.7	0
1411	A review of starch-based biocomposites reinforced with plant fibers. International Journal of Biological Macromolecules, 2024, 261, 129916.	7.5	1
1412	Potency of sago starch for edible film and coating. AIP Conference Proceedings, 2024, , .	0.4	0
1413	Valorization of fruit vegetable waste for semi-synthetic leather. Iranian Polymer Journal (English) Tj ETQq1 1 0.78	4314 rgBT 2.4	/Overlock 1
1414	Biodegradable Solid Polymer Electrolytes from the Discarded Cataractous Eye Protein Isolate. ACS Applied Bio Materials, 2024, 7, 2240-2253.	4.6	0
1415	Understanding the Interaction Between Gelatin and a Layered Silicate and Its Impact on the Physicochemical Properties of Films Produced by Casting. Journal of Polymers and the Environment, 0,	5.0	0
1416	An Overview of Biopolymers for Drug Delivery Applications. Applied Sciences (Switzerland), 2024, 14, 1383.	2.5	0
1417	Optimization of biomass-to-water ratio and glycerol content to develop antioxidant- enriched bioplastics from whole seaweed biomass of Kappaphycus sp Journal of Applied Phycology, 0, , .	2.8	0
1418	Investigation of film materials obtained from modified polyvinyl al-cohol-based solution systems. Vestnik Voronežskogo Gosudarstvennogo Universiteta inženernyh Tehnologij, 2023, 85, 226-236.	0.3	0
1419	Functional characterization of biodegradable films obtained from whole Paecilomyces variotii biomass. International Microbiology, 0, , .	2.4	0
1420	Characterization and shelf-life study of functional yoghurt based oral strip in polypropylene–aluminium/LLDPE blister pack. Journal of Food Measurement and Characterization, O, , .	3.2	0
1421	Cellulose nanofiber/bio-polycarbonate composites as a transparent glazing material for carbon sequestration. Cellulose, 2024, 31, 3699-3715.	4.9	O

#	Article	IF	CITATIONS
1422	Formulative Study and Characterization of Novel Biomaterials Based on Chitosan/Hydrolyzed Collagen Films. Journal of Functional Biomaterials, 2024, 15, 69.	4.4	0
1423	Recent trends in the development of Polyhydroxyalkanoates (PHAs) based biocomposites by blending with different bio-based polymers. Journal of Polymer Research, 2024, 31, .	2.4	0
1424	Emerging organic contaminants in the soil–plant-receptor continuum: transport, fate, health risks, and removal mechanisms. Environmental Monitoring and Assessment, 2024, 196, .	2.7	0
1425	Development of a Biodegradable, Cytocompatible, Antibacterial, and Biofilm-Controlling Chitosan Sulfobetaine Derivative Film as a Biological Material. Engineering, 2024, , .	6.7	0