

Peter J Halley

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1444067/peter-j-halley-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

167
papers

7,934
citations

46
h-index

83
g-index

171
ext. papers

8,780
ext. citations

5.7
avg, IF

6.01
L-index

#	Paper	IF	Citations
167	Polyethylene multiwalled carbon nanotube composites. <i>Polymer</i> , 2005 , 46, 8222-8232	3.9	702
166	Starch-based nano-biocomposites. <i>Progress in Polymer Science</i> , 2013 , 38, 1590-1628	29.6	376
165	Lifetime prediction of biodegradable polymers. <i>Progress in Polymer Science</i> , 2017 , 71, 144-189	29.6	274
164	The chemomechanical properties of microbial polyhydroxyalkanoates. <i>Progress in Polymer Science</i> , 2013 , 38, 536-583	29.6	269
163	A method for estimating the nature and relative proportions of amorphous, single, and double-helical components in starch granules by ¹³ C CP/MAS NMR. <i>Biomacromolecules</i> , 2007 , 8, 885-916	6.9	260
162	Chemorheology of thermosets—an overview. <i>Polymer Engineering and Science</i> , 1996 , 36, 593-609	2.3	257
161	Emerging biodegradable materials: starch- and protein-based bio-nanocomposites. <i>Journal of Materials Science</i> , 2008 , 43, 3058-3071	4.3	248
160	Morphology and properties of thermoplastic polyurethane nanocomposites incorporating hydrophilic layered silicates. <i>Polymer</i> , 2004 , 45, 2249-2260	3.9	227
159	Rheology to understand and optimize processibility, structures and properties of starch polymeric materials. <i>Progress in Polymer Science</i> , 2012 , 37, 595-623	29.6	184
158	Mechanism of Degradation of Starch, a Highly Branched Polymer, during Extrusion. <i>Macromolecules</i> , 2010 , 43, 2855-2864	5.5	183
157	Preparation and characterisation of biodegradable starch-based nanocomposite materials. <i>Polymer International</i> , 2003 , 52, 1767-1773	3.3	182
156	Biocomposites based on plasticized starch. <i>Biofuels, Bioproducts and Biorefining</i> , 2009 , 3, 329-343	5.3	145
155	The chemomechanical properties of microbial polyhydroxyalkanoates. <i>Progress in Polymer Science</i> , 2014 , 39, 397-442	29.6	135
154	Understanding vitrification during cure of epoxy resins using dynamic scanning calorimetry and rheological techniques. <i>Polymer</i> , 2000 , 41, 5949-5955	3.9	99
153	Developing lignin-based resin coatings and composites. <i>Industrial Crops and Products</i> , 2008 , 27, 163-167	5.9	98
152	Segmented Polyurethane Nanocomposites: Impact of Controlled Particle Size Nanofillers on the Morphological Response to Uniaxial Deformation. <i>Macromolecules</i> , 2005 , 38, 7386-7396	5.5	97
151	The anaerobic degradability of thermoplastic starch: polyvinyl alcohol blends: potential biodegradable food packaging materials. <i>Bioresource Technology</i> , 2009 , 100, 1705-10	11	94

150	Effects of starch synthase IIa gene dosage on grain, protein and starch in endosperm of wheat. <i>Theoretical and Applied Genetics</i> , 2007 , 115, 1053-65	6	94
149	Application of the Williams-Landel-Berry model to the viscosity-temperature relationship of Australian honeys. <i>Journal of Food Engineering</i> , 2003 , 56, 67-75	6	94
148	Composites of Wood and Biodegradable Thermoplastics: A Review. <i>Polymer Reviews</i> , 2018 , 58, 444-494	14	89
147	Confectionery Gels: A Review on Formulation, Rheological and Structural Aspects. <i>International Journal of Food Properties</i> , 2009 , 12, 176-210	3	83
146	Developing Biodegradable Mulch Films from Starch-Based Polymers. <i>Starch/Staerke</i> , 2001 , 53, 362	2.3	83
145	How thick is thick? Multicenter study of the rheological and material property characteristics of mealtime fluids and videofluoroscopy fluids. <i>Dysphagia</i> , 2000 , 15, 188-200	3.7	82
144	Structure-Property Relationships in Biomedical Thermoplastic Polyurethane Nanocomposites. <i>Macromolecules</i> , 2012 , 45, 198-210	5.5	81
143	Shear degradation of molecular, crystalline, and granular structures of starch during extrusion. <i>Starch/Staerke</i> , 2014 , 66, 595-605	2.3	74
142	Thermophysical properties and rheology of PHB/lignin blends. <i>Industrial Crops and Products</i> , 2013 , 50, 270-275	5.9	74
141	Physicochemical and mechanical properties of mixed culture polyhydroxyalkanoate (PHBV). <i>European Polymer Journal</i> , 2013 , 49, 904-913	5.2	70
140	Rheological properties of organoclay suspensions in epoxy network precursors. <i>Applied Clay Science</i> , 2004 , 25, 207-219	5.2	70
139	Rheological characterisation of food thickeners marketed in Australia in various media for the management of dysphagia. I: Water and cordial. <i>Journal of Food Engineering</i> , 2007 , 79, 69-82	6	69
138	Thermal, rheological, mechanical and morphological behavior of HDPE/chitosan blend. <i>Carbohydrate Polymers</i> , 2011 , 83, 414-421	10.3	67
137	Investigation of the starch gelatinisation phenomena in water-glycerol systems: application of modulated temperature differential scanning calorimetry. <i>Carbohydrate Polymers</i> , 2004 , 58, 191-204	10.3	66
136	Effect of the ionic liquid 1-ethyl-3-methylimidazolium acetate on the phase transition of starch: dissolution or gelatinization?. <i>Carbohydrate Polymers</i> , 2013 , 94, 520-30	10.3	64
135	Phase transitions of maize starches with different amylose contents in glycerol-water systems. <i>Carbohydrate Polymers</i> , 2011 , 85, 180-187	10.3	64
134	A fundamental study on photo-oxidative degradation of linear low density polyethylene films at embrittlement. <i>Polymer</i> , 2012 , 53, 2385-2393	3.9	63
133	Understanding the structural disorganization of starch in water-ionic liquid solutions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13860-71	3.6	62

132	Layered silicate nanocomposites based on various high-functionality epoxy resins: The influence of an organoclay on resin cure. <i>Polymer Engineering and Science</i> , 2003 , 43, 850-862	2.3	54
131	Characteristics of starch-based films plasticised by glycerol and by the ionic liquid 1-ethyl-3-methylimidazolium acetate: a comparative study. <i>Carbohydrate Polymers</i> , 2014 , 111, 841-8	10.3	53
130	Amylose content and chemical modification effects on thermoplastic starch from maize □ Processing and characterisation using conventional polymer equipment. <i>Carbohydrate Polymers</i> , 2009 , 78, 917-925	10.3	53
129	Amylose content and chemical modification effects on the extrusion of thermoplastic starch from maize. <i>Carbohydrate Polymers</i> , 2008 , 74, 907-913	10.3	52
128	Morphology and properties of thermoplastic polyurethane composites incorporating hydrophobic layered silicates. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 300-309	2.9	52
127	Studies on polymers and composites from lignin and fiber derived from sugar cane. <i>Polymers for Advanced Technologies</i> , 2007 , 18, 673-678	3.2	49
126	Rheological characterisation of food thickeners marketed in Australia in various media for the management of dysphagia. II. Milk as a dispersing medium. <i>Journal of Food Engineering</i> , 2008 , 84, 553-562	6	49
125	Phase separation, porous structure, and cure kinetics in aliphatic epoxy resin containing hyperbranched polyester. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 889-899	2.6	49
124	Gelatinisation of starch in mixtures of sugars. II. Application of differential scanning calorimetry. <i>Carbohydrate Polymers</i> , 2004 , 58, 311-321	10.3	49
123	Rheological characterization of food thickeners marketed in Australia in various media for the management of dysphagia. III. Fruit juice as a dispersing medium. <i>Journal of Food Engineering</i> , 2008 , 86, 604-615	6	48
122	A review of drainage and spontaneous rupture in free standing thin films with tangentially immobile interfaces. <i>Advances in Colloid and Interface Science</i> , 2003 , 105, 3-62	14.3	47
121	Biorenewable blends of polyamide-11 and polylactide. <i>Polymer Engineering and Science</i> , 2014 , 54, 1523-1532	15.3	46
120	Extrusion induced low-order starch matrices: Enzymic hydrolysis and structure. <i>Carbohydrate Polymers</i> , 2015 , 134, 485-96	10.3	43
119	Thickened fluids and water absorption in rats and humans. <i>Dysphagia</i> , 2007 , 22, 193-203	3.7	43
118	The behavior of aged regenerated Bombyx mori silk fibroin solutions studied by (1)H NMR and rheology. <i>Biomaterials</i> , 2008 , 29, 4268-74	15.6	43
117	Elaboration and properties of plasticised chitosan-based exfoliated nano-biocomposites. <i>Polymer</i> , 2013 , 54, 3654-3662	3.9	42
116	A study of water diffusion into a high-amylose starch blend: the effect of moisture content and temperature. <i>Biomacromolecules</i> , 2007 , 8, 296-301	6.9	42
115	Thermal stability analysis of organo-silicates, using solid phase microextraction techniques. <i>Thermochimica Acta</i> , 2005 , 429, 13-18	2.9	42

114	Which one of these is not like the others? An inter-hospital study of the viscosity of thickened fluids. <i>Journal of Speech, Language, and Hearing Research</i> , 2000 , 43, 537-47	2.8	42
113	Facile Preparation of Starch-Based Electroconductive Films with Ionic Liquid. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5457-5467	8.3	41
112	Dissolution of Starch with Aqueous Ionic Liquid under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3737-3741	8.3	41
111	Phase behavior, crystallization, and nanostructures in thermoset blends of epoxy resin and amphiphilic star-shaped block copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 975-985	2.6	40
110	Characteristics of starch-based films with different amylose contents plasticised by 1-ethyl-3-methylimidazolium acetate. <i>Carbohydrate Polymers</i> , 2015 , 122, 160-8	10.3	39
109	Compatibilization of starch/polyester blends using reactive extrusion. <i>Polymer Engineering and Science</i> , 2006 , 46, 248-263	2.3	38
108	Encapsulation of hydrocortisone and mesalazine in zein microparticles. <i>Pharmaceutics</i> , 2013 , 5, 277-93	6.4	36
107	Effect of MWCNT addition on the thermal and rheological properties of polymethyl methacrylate bone cement. <i>Carbon</i> , 2011 , 49, 2893-2904	10.4	36
106	Biodegradation of starch films: the roles of molecular and crystalline structure. <i>Carbohydrate Polymers</i> , 2015 , 122, 115-22	10.3	35
105	Next-generation biopolymers: Advanced functionality and improved sustainability. <i>MRS Bulletin</i> , 2011 , 36, 687-691	3.2	35
104	Rheological properties of thermoplastic starch studied by multipass rheometer. <i>Carbohydrate Polymers</i> , 2011 , 83, 914-919	10.3	35
103	Properties of a plasticised starch blend. Part 1: Influence of moisture content on fracture properties. <i>Carbohydrate Polymers</i> , 2008 , 71, 535-543	10.3	34
102	Crystallisation and fractionation of selected polyhydroxyalkanoates produced from mixed cultures. <i>New Biotechnology</i> , 2014 , 31, 345-56	6.4	33
101	Different characteristic effects of ageing on starch-based films plasticised by 1-ethyl-3-methylimidazolium acetate and by glycerol. <i>Carbohydrate Polymers</i> , 2016 , 146, 67-79	10.3	33
100	Blends of biorenewable polyamide-11 and polyamide-6,10. <i>Polymer</i> , 2013 , 54, 6961-6970	3.9	32
99	Determining the gel point of an epoxy resin by various rheological methods. <i>High Performance Polymers</i> , 1994 , 6, 405-414	1.6	30
98	The challenges in lifetime prediction of oxodegradable polyolefin and biodegradable polymer films. <i>Polymer Degradation and Stability</i> , 2017 , 145, 102-119	4.7	29
97	Chemorheology of Polymers: From Fundamental Principles to Reactive Processing 2009 ,		29

96	Correlation between chain microstructural changes and embrittlement of LLDPE-based films during photo- and thermo-oxidative degradation. <i>Polymer Degradation and Stability</i> , 2013 , 98, 425-435	4.7	28
95	Study on the phase separation of plasticised starch/poly(vinyl alcohol) blends. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1930-1939	4.7	27
94	DYNAMIC AND STEADY-STATE RHEOLOGY OF AUSTRALIAN HONEYS AT SUBZERO TEMPERATURES. <i>Journal of Food Process Engineering</i> , 2004 , 27, 284-309	2.4	26
93	Combined rheological and optical investigation of maize, barley and wheat starch gelatinisation. <i>Carbohydrate Polymers</i> , 2008 , 72, 272-286	10.3	25
92	Macromolecular Interactions During Gelatinisation and Retrogradation in Starch-Whey Systems as Studied by Rapid Visco-Analyser. <i>International Journal of Food Engineering</i> , 2006 , 2,	1.9	25
91	Effect of the average soft-segment length on the morphology and properties of segmented polyurethane nanocomposites. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 128-139	2.9	25
90	Instrument effects on stress jump measurements. <i>Rheologica Acta</i> , 1992 , 31, 481-489	2.3	25
89	Mechanical and physical stability of polyhydroxyalkanoate (PHA)-based wood plastic composites (WPCs) under natural weathering. <i>Polymer Testing</i> , 2019 , 73, 214-221	4.5	25
88	Establishing whether the structural feature controlling the mechanical properties of starch films is molecular or crystalline. <i>Carbohydrate Polymers</i> , 2015 , 117, 262-270	10.3	24
87	Engineered nanofillers: impact on the morphology and properties of biomedical thermoplastic polyurethane nanocomposites. <i>RSC Advances</i> , 2012 , 2, 9151	3.7	24
86	Equivalence of the Peleg, Pulosof and Singh-Kulshrestha models for water absorption in food. <i>Journal of Food Engineering</i> , 2007 , 78, 730-734	6	24
85	Gelatinisation of starch in mixtures of sugars. I. Dynamic rheological properties and behaviours of starch-honey systems. <i>Journal of Food Engineering</i> , 2004 , 61, 439-448	6	24
84	Flexible starch-polyurethane films: Effect of mixed macrodiol polyurethane ionomers on physicochemical characteristics and hydrophobicity. <i>Carbohydrate Polymers</i> , 2018 , 197, 312-325	10.3	23
83	Thermoplastic Starch. <i>Journal of Renewable Materials</i> , 2014 , 2, 95-106	2.4	22
82	Glycerol plasticised chitosan: A study of biodegradation via carbon dioxide evolution and nuclear magnetic resonance. <i>Polymer Degradation and Stability</i> , 2013 , 98, 1236-1246	4.7	22
81	Biodegradable polymers for industrial applications 2005 ,		22
80	Poly(glycerol sebacate) bioelastomers: Kinetics of step-growth reactions using Fourier Transform (FT)-Raman spectroscopy. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 3980-3986	2.9	21
79	Advantages and Disadvantages of Bioplastics Production from Starch and Lignocellulosic Components. <i>Polymers</i> , 2021 , 13,	4.5	21

78	In-line monitoring of thermal degradation of PHA during melt-processing by Near-Infrared spectroscopy. <i>New Biotechnology</i> , 2014 , 31, 357-63	6.4	20
77	Estimating the Specific Heat Capacity of Starch-Water-Glycerol Systems as a Function of Temperature and Compositions. <i>Starch/Staerke</i> , 2004 , 56, 6-12	2.3	20
76	Biodegradation and ecotoxicity evaluation of a bionolle and starch blend and its degradation products in compost. <i>International Biodeterioration and Biodegradation</i> , 2003 , 51, 77-81	4.8	20
75	Thermosets 2012 ,		20
74	Mechanical performance and long-term indoor stability of polyhydroxyalkanoate (PHA)-based wood plastic composites (WPCs) modified by non-reactive additives. <i>European Polymer Journal</i> , 2018 , 98, 337-346	5.2	19
73	Thermal properties and crystallization behavior of fractionated blocky and random polyhydroxyalkanoate copolymers from mixed microbial cultures. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	18
72	Value-added bioplastics from services of wastewater treatment. <i>Water Practice and Technology</i> , 2015 , 10, 546-555	0.9	18
71	Antagonism between transition metal pro-oxidants in polyethylene films. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1178-1188	4.7	18
70	Bounding film drainage in common thin films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 263, 197-204	5.1	18
69	The effect of comonomer concentration and distribution on the photo-oxidative degradation of linear low density polyethylene films. <i>Polymer</i> , 2017 , 119, 66-75	3.9	17
68	Mixed culture polyhydroxyalkanoate-rich biomass assessment and quality control using thermogravimetric measurement methods. <i>Polymer Degradation and Stability</i> , 2017 , 144, 110-120	4.7	17
67	The enzymatic hydrolysis of starch-based PVOH and polyol plasticised blends. <i>Carbohydrate Polymers</i> , 2009 , 77, 442-448	10.3	17
66	Gelation behaviour during chainwise crosslinking polymerisation of methacrylate resins. <i>Polymer</i> , 1999 , 40, 5699-5707	3.9	17
65	Insights into the biodegradation of PHA / wood composites: Micro- and macroscopic changes. <i>Sustainable Materials and Technologies</i> , 2019 , 21, e00099	5.3	16
64	Starch thermal transitions comparatively studied by DSC and MTDSC. <i>Starch/Staerke</i> , 2010 , 62, 350-357	2.3	16
63	Effect of different preparation routes on the structure and properties of rigid polyurethane-layered silicate nanocomposites. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 2894-2903	2.9	16
62	Mechanical properties of poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/wood flour composites: Effect of interface modifiers. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46828	2.9	16
61	Thermal and rheological effects of sepiolite in linear low-density polyethylene/starch blend. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 1330-1337	2.9	15

60	Starch Polymers: From the Field to Industrial Products 2014 , 3-10		15
59	Investigation of polypropylene degradation during melt processing using a profluorescent nitroxide probe: A laboratory-scale study. <i>Polymer Degradation and Stability</i> , 2011 , 96, 455-461	4.7	15
58	A new chemorheological analysis of highly filled thermosets used in integrated circuit packaging. <i>Journal of Applied Polymer Science</i> , 1997 , 64, 95-106	2.9	15
57	Impact of controlled particle size nanofillers on the mechanical properties of segmented polyurethane nanocomposites. <i>International Journal of Nanotechnology</i> , 2007 , 4, 496	1.5	15
56	Phase behavior, crystallization, and morphology in thermosetting blends of a biodegradable poly(ethylene glycol)-type epoxy resin and poly(ϵ -caprolactone). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 2833-2843	2.6	15
55	Scaling laws for the critical rupture thickness of common thin films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 263, 258-266	5.1	15
54	Dissolution and regeneration behavior of chitosan in 3-methyl-1-(ethylacetyl)imidazolium chloride. <i>Fibers and Polymers</i> , 2016 , 17, 1741-1748	2	15
53	Understanding the effect of copolymer content on the processability and mechanical properties of polyhydroxyalkanoate (PHA)/wood composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 124, 105437	8.4	14
52	Preparation and in vitro release of zein microparticles loaded with prednisolone for oral delivery. <i>Journal of Microencapsulation</i> , 2012 , 29, 706-12	3.4	14
51	Studies on the gelation of photocatalysed dicyanate ester resins. <i>Polymer</i> , 1997 , 38, 2997-3002	3.9	14
50	The effects of silica fillers on the gelation and vitrification of highly filled epoxy-amine thermosets. <i>Macromolecular Symposia</i> , 2001 , 169, 171-177	0.8	14
49	The effect of impurities on gel times for TGDDM epoxy resins cured with DDS. <i>High Performance Polymers</i> , 1993 , 5, 21-36	1.6	14
48	Vibrational spectroscopic studies of laboratory scale polymer melt processing: Application to a thermoplastic polyurethane nanocomposite. <i>Vibrational Spectroscopy</i> , 2009 , 51, 86-92	2.1	13
47	Properties of a plasticised starch blend [Part 2: Influence of strain rate, temperature and moisture on the tensile yield behaviour. <i>Carbohydrate Polymers</i> , 2008 , 74, 366-371	10.3	13
46	An automated multi-unit composting facility for biodegradability evaluations. <i>Journal of Chemical Technology and Biotechnology</i> , 2001 , 76, 411-417	3.5	13
45	The gel and rheological behaviour of radiation-crosslinked linear low-density polyethylene. <i>Polymer</i> , 1994 , 35, 2186-2191	3.9	13
44	Technical Note: Angular compliance error in force rebalance torque transducers. <i>Journal of Rheology</i> , 1991 , 35, 1609-1614	4.1	13
43	Chemical modification of multiwalled carbon nanotube with a bifunctional caged ligand for radioactive labelling. <i>Acta Materialia</i> , 2014 , 64, 54-61	8.4	12

42	Advanced Nano-biocomposites Based on Starch 2014 , 1-75		12
41	Layered silicate nanocomposites based on various high-functionality epoxy resins. Part II: The influence of an organoclay on the rheological behavior of epoxy prepolymers. <i>Polymer Engineering and Science</i> , 2003 , 43, 1683-1690	2.3	12
40	The effect of metals on the processing of LLDPE through a slit die. <i>Journal of Rheology</i> , 1994 , 38, 41-51	4.1	12
39	Starch Modification to Develop Novel Starch-Biopolymer Blends 2014 , 105-143		11
38	Lubrication of starch in ionic liquid-water mixtures: Soluble carbohydrate polymers form a boundary film on hydrophobic surfaces. <i>Carbohydrate Polymers</i> , 2015 , 133, 507-16	10.3	10
37	Formulation and Characterization of Drug-Loaded Microparticles Using Distillers Dried Grain Kafirin. <i>Cereal Chemistry</i> , 2015 , 92, 246-252	2.4	10
36	Chemorheological studies on a thermoset PU/clay nanocomposite system. <i>Composite Interfaces</i> , 2007 , 14, 449-465	2.3	10
35	Glass transition phenomena in molasses. <i>LWT - Food Science and Technology</i> , 2007 , 40, 1117-1122	5.4	10
34	In-situ monitoring by fibre-optic NIR spectroscopy and rheometry of maleic anhydride grafting to polypropylene in a laboratory scale reactive extruder. <i>Polymer Testing</i> , 2012 , 31, 155-163	4.5	9
33	Photochemistry of low-density polyethylene/montmorillonite composites. <i>Journal of Applied Polymer Science</i> , 2009 , 112, 381-389	2.9	9
32	Moisture absorption characteristics of food thickeners used for the management of swallowing dysfunctions. <i>European Food Research and Technology</i> , 2007 , 224, 555-560	3.4	9
31	Friction Factors and Rheological Behavior of Australian Honey in a Straight Pipe. <i>International Journal of Food Properties</i> , 2004 , 7, 393-405	3	9
30	Polyethylene-layered silicate nanocomposites for rotational moulding. <i>Polymer International</i> , 2003 , 52, 1774-1779	3.3	9
29	The effect of common agrichemicals on the environmental stability of polyethylene films. <i>Polymer Degradation and Stability</i> , 2015 , 120, 53-60	4.7	8
28	Effect of soil environment on the photo-degradation of polyethylene films. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	8
27	Starch Applications 2014 , 381-419		8
26	Infrared microspectroscopic mapping of the homogeneity of extruded blends: Application to starch/polyester blends. <i>Polymer Testing</i> , 2006 , 25, 16-21	4.5	8
25	Mechanical Stability of Polyhydroxyalkanoate (PHA)-Based Wood Plastic Composites (WPCs). <i>Journal of Polymers and the Environment</i> , 2020 , 28, 1571-1577	4.5	7

24	Preparation and In Vitro Release of Drug-Loaded Microparticles for Oral Delivery Using Wholegrain Sorghum Kafirin Protein. <i>International Journal of Polymer Science</i> , 2015 , 2015, 1-8	2.4	7
23	Mechanical Properties of Starch-Based Plastics 2014 , 187-209		7
22	Effect of additives on gelatinization, rheological properties and biodegradability of thermoplastic starch. <i>Macromolecular Symposia</i> , 1999 , 144, 371-374	0.8	7
21	Bio-nanocomposites based on starch 2011 , 234-260		7
20	SPECIFIC HEAT CAPACITY OF AUSTRALIAN HONEYS FROM 35 TO 165C AS A FUNCTION OF COMPOSITION USING DIFFERENTIAL SCANNING CALORIMETRY. <i>Journal of Food Processing and Preservation</i> , 2006 , 30, 99-109	2.1	6
19	Optimizing Prednisolone Loading into Distiller's Dried Grain Kafirin Microparticles, and In vitro Release for Oral Delivery. <i>Pharmaceutics</i> , 2017 , 9,	6.4	5
18	A rheology study of high-energy radiolysis of a semicrystalline ethylene-propylene copolymer containing DOP mobilizer. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3437-3441	2.9	5
17	The effects of fillers on the chemorheology of highly filled epoxy resins: I. Effects on cure transitions and kinetics. <i>Polymer International</i> , 2003 , 52, 113-119	3.3	5
16	Poly (glycerol-sebacate) bioelastomers: 2. Synthesis using Brabender Plasticoder \square as a batch reactor. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	5
15	Reactive Extrusion for Thermoplastic Starch-Polymer Blends 2014 , 291-317		4
14	Synthesis, characterization and biocompatibility of novel biodegradable cross-linked co-polymers based on poly(propylene oxide) diglycidylether and polyethylenimine. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 457-73	3.5	4
13	Thermoplastic Starch Polymer Blends and Nanocomposites. <i>ACS Symposium Series</i> , 2012 , 323-334	0.4	3
12	Bounding the Stability and Rupture Condition of Emulsion and Foam Films. <i>Chemical Engineering Research and Design</i> , 2005 , 83, 915-925	5.5	3
11	An oven design for torsional rheometers. <i>Rheologica Acta</i> , 1992 , 31, 208-211	2.3	3
10	Advanced Nano-biocomposites Based on Starch 2015 , 1467-1553		3
9	Inducing a Curl with a Stretch. <i>Physics Magazine</i> , 2020 , 13,	1.1	2
8	Technical note: correcting for shear strain in an oscillatory squeeze flow rheometer. <i>Rheologica Acta</i> , 2014 , 53, 103-107	2.3	2
7	Mechanical performance of starch-based biocomposites 2015 , 53-92		2

6	Biodegradation and Applications of Nanobiocomposites. <i>Green Energy and Technology</i> , 2012 , 409-442	0.6	2
5	Impact of Controlled Hydrophobicity of the Organically Modified Silicates on the Properties of Biomedical Thermoplastic Polyurethane (TPU) Nanocomposites. <i>Advanced Materials Research</i> , 2013 , 795, 9-13	0.5	2
4	Composites of poly(ethylene terephthalate) and multi-walled carbon nanotubes 2011 , 545-586		2
3	Halophyte biorefinery for polyhydroxyalkanoates production from <i>Ulva</i> sp. Hydrolysate with <i>Haloferax mediterranei</i> in pneumatically agitated bioreactors and ultrasound harvesting. <i>Bioresource Technology</i> , 2022 , 344, 125964	11	1
2	Structure-Property Relationships of Genetically Modified Starch 2014 , 31-75		
1	Morphology Development in Thermoset Nanocomposites 21-40		