Peter J Halley

List of Publications by Year
in descending order

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167 papers	9,736 citations	38742 50 h-index	42399 92 g-index
172 all docs	172 docs citations	172 times ranked	9585 citing authors

#	Article	IF	Citations
1	Polyethylene multiwalled carbon nanotube composites. Polymer, 2005, 46, 8222-8232.	3.8	753
2	Starch-based nano-biocomposites. Progress in Polymer Science, 2013, 38, 1590-1628.	24.7	455
3	Lifetime prediction of biodegradable polymers. Progress in Polymer Science, 2017, 71, 144-189.	24.7	416
4	The chemomechanical properties of microbial polyhydroxyalkanoates. Progress in Polymer Science, 2013, 38, 536-583.	24.7	372
5	A Method for Estimating the Nature and Relative Proportions of Amorphous, Single, and Double-Helical Components in Starch Granules by13C CP/MAS NMR. Biomacromolecules, 2007, 8, 885-891.	5.4	337
6	Chemorheology of thermosets?an overview. Polymer Engineering and Science, 1996, 36, 593-609.	3.1	315
7	Emerging biodegradable materials: starch- and protein-based bio-nanocomposites. Journal of Materials Science, 2008, 43, 3058-3071.	3.7	292
8	Morphology and properties of thermoplastic polyurethane nanocomposites incorporating hydrophilic layered silicates. Polymer, 2004, 45, 2249-2260.	3.8	243
9	Rheology to understand and optimize processibility, structures and properties of starch polymeric materials. Progress in Polymer Science, 2012, 37, 595-623.	24.7	229
10	Mechanism of Degradation of Starch, a Highly Branched Polymer, during Extrusion. Macromolecules, 2010, 43, 2855-2864.	4.8	227
11	Preparation and characterisation of biodegradable starch-based nanocomposite materials. Polymer International, 2003, 52, 1767-1773.	3.1	201
12	Biocomposites based on plasticized starch. Biofuels, Bioproducts and Biorefining, 2009, 3, 329-343.	3.7	167
13	The chemomechanical properties of microbial polyhydroxyalkanoates. Progress in Polymer Science, 2014, 39, 397-442.	24.7	166
14	Composites of Wood and Biodegradable Thermoplastics: A Review. Polymer Reviews, 2018, 58, 444-494.	10.9	134
15	Understanding vitrification during cure of epoxy resins using dynamic scanning calorimetry and rheological techniques. Polymer, 2000, 41, 5949-5955.	3.8	117
16	The anaerobic degradability of thermoplastic starch: Polyvinyl alcohol blends: Potential biodegradable food packaging materials. Bioresource Technology, 2009, 100, 1705-1710.	9.6	115
17	Confectionery Gels: A Review on Formulation, Rheological and Structural Aspects. International Journal of Food Properties, 2009, 12, 176-210.	3.0	115
18	Developing lignin-based resin coatings and composites. Industrial Crops and Products, 2008, 27, 163-167.	5.2	113

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19	Shear degradation of molecular, crystalline, and granular structures of starch during extrusion. Starch/Staerke, 2014, 66, 595-605.	2.1	109
20	Application of the Williamsâ€“Landelâ€“Ferry model to the viscosityâ€“temperature relationship of Australian honeys. Journal of Food Engineering, 2003, 56, 67-75.	5.2	106
21	Segmented Polyurethane Nanocomposites:Â Impact of Controlled Particle Size Nanofillers on the Morphological Response to Uniaxial Deformation. Macromolecules, 2005, 38, 7386-7396.	4.8	106
22	Developing Biodegradable Mulch Films from Starch-Based Polymers. Starch/Staerke, 2001, 53, 362.	2.1	103
23	Effects of starch synthase IIa gene dosage on grain, protein and starch in endosperm of wheat. Theoretical and Applied Genetics, 2007, 115, 1053-1065.	3.6	100
24	How Thick Is Thick? Multicenter Study of the Rheological and Material Property Characteristics of Mealtime Fluids and Videofluoroscopy Fluids. Dysphagia, 2000, 15, 188-200.	1.8	98
25	Physicochemical and mechanical properties of mixed culture polyhydroxyalkanoate (PHBV). European Polymer Journal, 2013, 49, 904-913.	5.4	90
26	Structureâ€“Property Relationships in Biomedical Thermoplastic Polyurethane Nanocomposites. Macromolecules, 2012, 45, 198-210.	4.8	89
27	Thermophysical properties and rheology of PHB/lignin blends. Industrial Crops and Products, 2013, 50, 270-275.	5.2	88
28	Rheological characterisation of food thickeners marketed in Australia in various media for the management of dysphagia. I: Water and cordial. Journal of Food Engineering, 2007, 79, 69-82.	5.2	81
29	A fundamental study on photo-oxidative degradation of linear low density polyethylene films at embrittlement. Polymer, 2012, 53, 2385-2393.	3.8	78
30	Thermal, rheological, mechanical and morphological behavior of HDPE/chitosan blend. Carbohydrate Polymers, 2011, 83, 414-421.	10.2	77
31	Advantages and Disadvantages of Bioplastics Production from Starch and Lignocellulosic Components. Polymers, 2021, 13, 2484.	4.5	77
32	Phase transitions of maize starches with different amylose contents in glycerolâ€“water systems. Carbohydrate Polymers, 2011, 85, 180-187.	10.2	74
33	Effect of the ionic liquid 1-ethyl-3-methylimidazolium acetate on the phase transition of starch: Dissolution or gelatinization?. Carbohydrate Polymers, 2013, 94, 520-530.	10.2	74
34	Understanding the structural disorganization of starch in waterâ€“ionic liquid solutions. Physical Chemistry Chemical Physics, 2015, 17, 13860-13871.	2.8	73
35	Rheological properties of organoclay suspensions in epoxy network precursors. Applied Clay Science, 2004, 25, 207-219.	5.2	72
36	Investigation of the starch gelatinisation phenomena in waterâ€“glycerol systems: application of modulated temperature differential scanning calorimetry. Carbohydrate Polymers, 2004, 58, 191-204.	10.2	71

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37	Characteristics of starch-based films plasticised by glycerol and by the ionic liquid 1-ethyl-3-methylimidazolium acetate: A comparative study. Carbohydrate Polymers, 2014, 111, 841-848.	10.2	69
38	Amylose content and chemical modification effects on the extrusion of thermoplastic starch from maize. Carbohydrate Polymers, 2008, 74, 907-913.	10.2	68
39	Morphology and properties of thermoplastic polyurethane composites incorporating hydrophobic layered silicates. Journal of Applied Polymer Science, 2005, 97, 300-309.	2.6	62
40	The behavior of aged regenerated Bombyx mori silk fibroin solutions studied by 1H NMR and rheology. Biomaterials, 2008, 29, 4268-4274.	11.4	59
41	A review of drainage and spontaneous rupture in free standing thin films with tangentially immobile interfaces. Advances in Colloid and Interface Science, 2003, 105, 3-62.	14.7	58
42	Facile Preparation of Starch-Based Electroconductive Films with Ionic Liquid. ACS Sustainable Chemistry and Engineering, 2017, 5, 5457-5467.	6.7	58
43	Layered silicate nanocomposites based on various high-functionality epoxy resins: The influence of an organoclay on resin cure. Polymer Engineering and Science, 2003, 43, 850-862.	3.1	57
44	Studies on polymers and composites from lignin and fiber derived from sugar cane. Polymers for Advanced Technologies, 2007, 18, 673-678.	3.2	57
45	Rheological characterization of food thickeners marketed in Australia in various media for the management of dysphagia. III. Fruit juice as a dispersing medium. Journal of Food Engineering, 2008, 86, 604-615.	5.2	57
46	Biorenewable blends of polyamideâ€11 and polylactide. Polymer Engineering and Science, 2014, 54, 1523-1532.	3.1	57
47	Amylose content and chemical modification effects on thermoplastic starch from maize â€“ Processing and characterisation using conventional polymer equipment. Carbohydrate Polymers, 2009, 78, 917-925.	10.2	56
48	Gelatinisation of starch in mixtures of sugars. II. Application of differential scanning calorimetry. Carbohydrate Polymers, 2004, 58, 311-321.	10.2	55
49	Rheological characterisation of food thickeners marketed in Australia in various media for the management of dysphagia. II. Milk as a dispersing medium. Journal of Food Engineering, 2008, 84, 553-562.	5.2	55
50	Biodegradation of starch films: The roles of molecular and crystalline structure. Carbohydrate Polymers, 2015, 122, 115-122.	10.2	54
51	Extrusion induced low-order starch matrices: Enzymic hydrolysis and structure. Carbohydrate Polymers, 2015, 134, 485-496.	10.2	54
52	Phase separation, porous structure, and cure kinetics in aliphatic epoxy resin containing hyperbranched polyester. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 889-899.	2.1	51
53	Encapsulation of Hydrocortisone and Mesalazine in Zein Microparticles. Pharmaceutics, 2013, 5, 277-293.	4.5	50
54	Characteristics of starch-based films with different amylose contents plasticised by 1-ethyl-3-methylimidazolium acetate. Carbohydrate Polymers, 2015, 122, 160-168.	10.2	50

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55	Different characteristic effects of ageing on starch-based films plasticised by 1-ethyl-3-methylimidazolium acetate and by glycerol. Carbohydrate Polymers, 2016, 146, 67-79.	10.2	49
56	Which One of These Is Not Like the Others? An inter-hospital Study of the Viscosity of Thickened Fluids. Journal of Speech, Language, and Hearing Research, 2000, 43, 537-547.	1.6	47
57	Dissolution of Starch with Aqueous Ionic Liquid under Ambient Conditions. ACS Sustainable Chemistry and Engineering, 2017, 5, 3737-3741.	6.7	47
58	Rheological properties of thermoplastic starch studied by multipass rheometer. Carbohydrate Polymers, 2011, 83, 914-919.	10.2	46
59	Crystallisation and fractionation of selected polyhydroxyalkanoates produced from mixed cultures. New Biotechnology, 2014, 31, 345-356.	4.4	45
60	Thermal stability analysis of organo-silicates, using solid phase microextraction techniques. Thermochimica Acta, 2005, 429, 13-18.	2.7	44
61	Thickened Fluids and Water Absorption in Rats and Humans. Dysphagia, 2007, 22, 193-203.	1.8	44
62	Effect of MWCNT addition on the thermal and rheological properties of polymethyl methacrylate bone cement. Carbon, 2011, 49, 2893-2904.	10.3	44
63	Elaboration and properties of plasticised chitosan-based exfoliated nano-biocomposites. Polymer, 2013, 54, 3654-3662.	3.8	44
64	Compatibilization of starchâ€“polyester blends using reactive extrusion. Polymer Engineering and Science, 2006, 46, 248-263.	3.1	43
65	The challenges in lifetime prediction of oxodegradable polyolefin and biodegradable polymer films. Polymer Degradation and Stability, 2017, 145, 102-119.	5.8	43
66	A Study of Water Diffusion into a High-Amylose Starch Blend:Â The Effect of Moisture Content and Temperature. Biomacromolecules, 2007, 8, 296-301.	5.4	42
67	Next-generation biopolymers: Advanced functionality and improved sustainability. MRS Bulletin, 2011, 36, 687-691.	3.5	42
68	Phase behavior, crystallization, and nanostructures in thermoset blends of epoxy resin and amphiphilic star-shaped block copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 975-985.	2.1	40
69	Blends of biorenewable polyamide-11 and polyamide-6,10. Polymer, 2013, 54, 6961-6970.	3.8	40
70	Properties of a plasticised starch blend. Part 1: Influence of moisture content on fracture properties. Carbohydrate Polymers, 2008, 71, 535-543.	10.2	38
71	Macromolecular Interactions During Gelatinisation and Retrogradation in Starch-Whey Systems as Studied by Rapid Visco-Analyser. International Journal of Food Engineering, 2006, 2, .	1.5	37
72	Correlation between chain microstructural changes and embrittlement of LLDPE-based films during photo- and thermo-oxidative degradation. Polymer Degradation and Stability, 2013, 98, 425-435.	5.8	37

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73	Mechanical and physical stability of polyhydroxyalkanoate (PHA)-based wood plastic composites (WPCs) under natural weathering. Polymer Testing, 2019, 73, 214-221.	4.8	36
74	Mixed culture polyhydroxyalkanoate-rich biomass assessment and quality control using thermogravimetric measurement methods. Polymer Degradation and Stability, 2017, 144, 110-120.	5.8	35
75	Biodegradable polymers for industrial applications. , 2005, , .		34
76	Determining the gel point of an epoxy resin by various theological methods. High Performance Polymers, 1994, 6, 405-414.	1.8	33
77	Study on the phase separation of plasticised starch/poly(vinyl alcohol) blends. Polymer Degradation and Stability, 2012, 97, 1930-1939.	5.8	33
78	Thermoplastic Starch. Journal of Renewable Materials, 2014, 2, 95-106.	2.2	32
79	In-line monitoring of thermal degradation of PHA during melt-processing by Near-Infrared spectroscopy. New Biotechnology, 2014, 31, 357-363.	4.4	31
80	Glycerol plasticised chitosan: A study of biodegradation via carbon dioxide evolution and nuclear magnetic resonance. Polymer Degradation and Stability, 2013, 98, 1236-1246.	5.8	30
81	Instrument effects on stress jump measurements. Rheologica Acta, 1992, 31, 481-489.	2.4	29
82	DYNAMIC AND STEADYâ€STATE RHEOLOGY OF AUSTRALIAN HONEYS AT SUBZERO TEMPERATURES. Journal of Food Process Engineering, 2004, 27, 284-309.	2.9	29
83	Combined rheological and optical investigation of maize, barley and wheat starch gelatinisation. Carbohydrate Polymers, 2008, 72, 272-286.	10.2	29
84	Thermal properties and crystallization behavior of fractionated blocky and random polyhydroxyalkanoate copolymers from mixed microbial cultures. Journal of Applied Polymer Science, 2014, 131, .	2.6	29
85	Gelatinisation of starch in mixtures of sugars. I. Dynamic rheological properties and behaviours of starchâ€“honey systems. Journal of Food Engineering, 2004, 61, 439-448.	5.2	28
86	Equivalence of the Peleg, Pilosof and Singhâ€“Kulshrestha models for water absorption in food. Journal of Food Engineering, 2007, 78, 730-734.	5.2	28
87	Engineered nanofillers: impact on the morphology and properties of biomedical thermoplastic polyurethane nanocomposites. RSC Advances, 2012, 2, 9151.	3.6	28
88	Establishing whether the structural feature controlling the mechanical properties of starch films is molecular or crystalline. Carbohydrate Polymers, 2015, 117, 262-270.	10.2	28
89	Flexible starch-polyurethane films: Effect of mixed macrodiol polyurethane ionomers on physicochemical characteristics and hydrophobicity. Carbohydrate Polymers, 2018, 197, 312-325.	10.2	28
90	Understanding the effect of copolymer content on the processability and mechanical properties of polyhydroxyalkanoate (PHA)/wood composites. Composites Part A: Applied Science and Manufacturing, 2019, 124, 105437.	7.6	28

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91	Effect of the average soft-segment length on the morphology and properties of segmented polyurethane nanocomposites. Journal of Applied Polymer Science, 2006, 102, 128-139.	2.6	27
92	Mechanical performance and long-term indoor stability of polyhydroxyalkanoate (PHA)-based wood plastic composites (WPCs) modified by non-reactive additives. European Polymer Journal, 2018, 98, 337-346.	5.4	27
93	Poly(glycerolâ€“sebacate) bioelastomersâ€”kinetics of stepâ€growth reactions using Fourier Transform (FT)â€Raman spectroscopy. Journal of Applied Polymer Science, 2013, 127, 3980-3986.	2.6	26
94	The effect of comonomer concentration and distribution on the photo-oxidative degradation of linear low density polyethylene films. Polymer, 2017, 119, 66-75.	3.8	26
95	Thermosets. , 2012, , .		25
96	Estimating the Specific Heat Capacity of Starch-Water-Glycerol Systems as a Function of Temperature and Compositions. Starch/Staerke, 2004, 56, 6-12.	2.1	24
97	Starch Polymers. , 2014, , 3-10.		23
98	Value-added bioplastics from services of wastewater treatment. Water Practice and Technology, 2015, 10, 546-555.	2.0	23
99	Biodegradation and ecotoxicity evaluation of a bionolle and starch blend and its degradation products in compost. International Biodeterioration and Biodegradation, 2003, 51, 77-81.	3.9	22
100	Insights into the biodegradation of PHA / wood composites: Micro- and macroscopic changes. Sustainable Materials and Technologies, 2019, 21, e00099.	3.3	22
101	Antagonism between transition metal pro-oxidants in polyethylene films. Polymer Degradation and Stability, 2012, 97, 1178-1188.	5.8	21
102	Thermal and rheological effects of sepiolite in linear lowâ€density polyethylene/starch blend. Journal of Applied Polymer Science, 2013, 127, 1330-1337.	2.6	21
103	The enzymatic hydrolysis of starch-based PVOH and polyol plasticised blends. Carbohydrate Polymers, 2009, 77, 442-448.	10.2	20
104	Starch thermal transitions comparatively studied by DSC and MTDSC. Starch/Staerke, 2010, 62, 350-357.	2.1	20
105	A new chemorheological analysis of highly filled thermosets used in integrated circuit packaging. Journal of Applied Polymer Science, 1997, 64, 95-106.	2.6	19
106	Gelation behaviour during chainwise crosslinking polymerisation of methacrylate resins. Polymer, 1999, 40, 5699-5707.	3.8	19
107	Scaling laws for the critical rupture thickness of common thin films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 263, 258-266.	4.7	19
108	Bounding film drainage in common thin films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 263, 197-204.	4.7	19

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109	Investigation of polypropylene degradation during melt processing using a profluorescent nitroxide probe: A laboratory-scale study. Polymer Degradation and Stability, 2011, 96, 455-461.	5.8	19
110	Starch Applications. , 2014, , 381-419.		19
111	The effect of common agrichemicals on the environmental stability of polyethylene films. Polymer Degradation and Stability, 2015, 120, 53-60.	5.8	19
112	The effects of silica fillers on the gelation and vitrification of highly filled epoxy-amine thermosets. Macromolecular Symposia, 2001, 169, 171-177.	0.7	18
113	Mechanical properties of poly(3â€hydroxybutyrateâ€coâ€3â€hydroxyvalerate)/wood flour composites: Effect of interface modifiers. Journal of Applied Polymer Science, 2018, 135, 46828.	2.6	18
114	Phase behavior, crystallization, and morphology in thermosetting blends of a biodegradable poly(ethylene glycol)-type epoxy resin and poly(?-caprolactone). Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 2833-2843.	2.1	17
115	Impact of controlled particle size nanofillers on the mechanical properties of segmented polyurethane nanocomposites. International Journal of Nanotechnology, 2007, 4, 496.	0.2	17
116	Starch Modification to Develop Novel Starch-Biopolymer Blends. , 2014, , 105-143.		17
117	Dissolution and regeneration behavior of chitosan in 3-methyl-1-(ethylacetyl)imidazolium chloride. Fibers and Polymers, 2016, 17, 1741-1748.	2.1	17
118	Layered silicate nanocomposites based on various high-functionality epoxy resins. Part II: The influence of an organoclay on the rheological behavior of epoxy prepolymers. Polymer Engineering and Science, 2003, 43, 1683-1690.	3.1	16
119	Effect of different preparation routes on the structure and properties of rigid polyurethane-layered silicate nanocomposites. Journal of Applied Polymer Science, 2006, 102, 2894-2903.	2.6	16
120	Preparation andin vitrorelease of zein microparticles loaded with prednisolone for oral delivery. Journal of Microencapsulation, 2012, 29, 706-712.	2.8	16
121	Technical Note: Angular compliance error in force rebalance torque transducers. Journal of Rheology, 1991, 35, 1609-1614.	2.6	15
122	The effect of metals on the processing of LLDPE through a slit die. Journal of Rheology, 1994, 38, 41-51.	2.6	15
123	Studies on the gelation of photocatalysed dicyanate ester resins. Polymer, 1997, 38, 2997-3002.	3.8	15
124	An automated multi-unit composting facility for biodegradability evaluations. Journal of Chemical Technology and Biotechnology, 2001, 76, 411-417.	3.2	15
125	Properties of a plasticised starch blend â€“ Part 2: Influence of strain rate, temperature and moisture on the tensile yield behaviour. Carbohydrate Polymers, 2008, 74, 366-371.	10.2	15
126	Vibrational spectroscopic studies of laboratory scale polymer melt processing: Application to a thermoplastic polyurethane nanocomposite. Vibrational Spectroscopy, 2009, 51, 86-92.	2.2	15

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127	The effect of impurities on gel times for TGDDM epoxy resins cured with DDS. High Performance Polymers, 1993, 5, 21-36.	1.8	14
128	Advanced Nano-biocomposites Based on Starch. , 2014, , 1-75.		14
129	Mechanical Properties of Starch-Based Plastics. , 2014, , 187-209.		14
130	The gel and rheological behaviour of radiation-crosslinked linear low-density polyethylene. Polymer, 1994, 35, 2186-2191.	3.8	13
131	Chemorheological studies on a thermoset PU/clay nanocomposite system. Composite Interfaces, 2007, 14, 449-465.	2.3	13
132	Glass transition phenomena in molasses. LWT - Food Science and Technology, 2007, 40, 1117-1122.	5.2	13
133	Chemical modification of multiwalled carbon nanotube with a bifunctional caged ligand for radioactive labelling. Acta Materialia, 2014, 64, 54-61.	7.9	13
134	Polyethylene-layered silicate nanocomposites for rotational moulding. Polymer International, 2003, 52, 1774-1779.	3.1	12
135	Moisture absorption characteristics of food thickeners used for the management of swallowing dysfunctions. European Food Research and Technology, 2007, 224, 555-560.	3.3	12
136	Lubrication of starch in ionic liquidâ€“water mixtures: Soluble carbohydrate polymers form a boundary film on hydrophobic surfaces. Carbohydrate Polymers, 2015, 133, 507-516.	10.2	12
137	In-situ monitoring by fibre-optic NIR spectroscopy and rheometry of maleic anhydride grafting to polypropylene in a laboratory scale reactive extruder. Polymer Testing, 2012, 31, 155-163.	4.8	11
138	Formulation and Characterization of Drug-Loaded Microparticles Using Distillers Dried Grain Kafirin. Cereal Chemistry, 2015, 92, 246-252.	2.2	11
139	Effect of soil environment on the photoâ€degradation of polyethylene films. Journal of Applied Polymer Science, 2015, 132, .	2.6	10
140	Mechanical Stability of Polyhydroxyalkanoate (PHA)-Based Wood Plastic Composites (WPCs). Journal of Polymers and the Environment, 2020, 28, 1571-1577.	5.0	10
141	Halophyte biorefinery for polyhydroxyalkanoates production from Ulva sp. Hydrolysate with Haloferax mediterranei in pneumatically agitated bioreactors and ultrasound harvesting. Bioresource Technology, 2022, 344, 125964.	9.6	10
142	Effect of additives on gelatinization, rheological properties and biodegradability of thermoplastic starch. Macromolecular Symposia, 1999, 144, 371-374.	0.7	9
143	Friction Factors and Rheological Behavior of Australian Honey in a Straight Pipe. International Journal of Food Properties, 2004, 7, 393-405.	3.0	9
144	Infrared microspectroscopic mapping of the homogeneity of extruded blends: Application to starch/polyester blends. Polymer Testing, 2006, 25, 16-21.	4.8	9

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145	Photochemistry of lowâ€density polyethyleneâ€“montmorillonite composites. Journal of Applied Polymer Science, 2009, 112, 381-389.	2.6	9
146	Preparation andIn VitroRelease of Drug-Loaded Microparticles for Oral Delivery Using Wholegrain Sorghum Kafirin Protein. International Journal of Polymer Science, 2015, 2015, 1-8.	2.7	9
147	The effects of fillers on the chemorheology of highly filled epoxy resins: I. Effects on cure transitions and kinetics. Polymer International, 2003, 52, 113-119.	3.1	8
148	SPECIFIC HEAT CAPACITY OF AUSTRALIAN HONEYS FROM 35 TO 165C AS A FUNCTION OF COMPOSITION USING DIFFERENTIAL SCANNING CALORIMETRY. Journal of Food Processing and Preservation, 2006, 30, 99-109.	2.0	8
149	Bio-nanocomposites based on starch. , 2011, , 234-260.		8
150	Poly (glycerolâ€sebacate) bioelastomers: 2. Synthesis using <scp>B</scp>rabender <scp>P</scp>lasticoder^{Â®} as a batch reactor. Journal of Applied Polymer Science, 2016, 133, .	2.6	6
151	An oven design for torsional rheometers. Rheologica Acta, 1992, 31, 208-211.	2.4	5
152	A rheology study of high-energy radiolysis of a semicrystalline ethylene-propylene copolymer containing DOP mobilizer. Journal of Applied Polymer Science, 2006, 101, 3437-3441.	2.6	5
153	Synthesis, Characterization and Biocompatibility of Novel Biodegradable Cross-linked Co-polymers Based on Poly(propylene oxide) Diglycidylether and Polyethylenimine. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 457-473.	3.5	5
154	Thermoplastic Starch Polymer Blends and Nanocomposites. ACS Symposium Series, 2012, , 323-334.	0.5	5
155	Reactive Extrusion for Thermoplastic Starch-Polymer Blends. , 2014, , 291-317.		5
156	Optimizing Prednisolone Loading into Distillerâ€™s Dried Grain Kafirin Microparticles, and In vitro Release for Oral Delivery. Pharmaceutics, 2017, 9, 17.	4.5	5
157	Advanced Nano-biocomposites Based on Starch. , 2015, , 1467-1553.		4
158	Bounding the Stability and Rupture Condition of Emulsion and Foam Films. Chemical Engineering Research and Design, 2005, 83, 915-925.	5.6	3
159	Composites of poly(ethylene terephthalate) and multi-walled carbon nanotubes. , 2011, , 545-586.		3
160	Mechanical performance ofÂstarch-basedÂbiocomposites. , 2015, , 53-92.		3
161	Sustainable Plastics Inspired by Nature. Physics Magazine, 2020, 13, .	0.1	3
162	Processing and rheological properties of polyol/cellulose nanofibre dispersions for polyurethanes. Polymer, 2022, 255, 125130.	3.8	3

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163	Biodegradation and Applications of Nanobiocomposites. Green Energy and Technology, 2012, , 409-442.	0.6	2
164	Impact of Controlled Hydrophobicity of the Organically Modified Silicates on the Properties of Biomedical Thermoplastic Polyurethane (TPU) Nanocomposites. Advanced Materials Research, 0, 795, 9-13.	0.3	2
165	Technical note: correcting for shear strain in an oscillatory squeeze flow rheometer. Rheologica Acta, 2014, 53, 103-107.	2.4	2
166	â€œStructure-Propertyâ€•Relationships of Genetically Modified Starch. , 2014, , 31-75.		1
167	Toward a New Universal Model for Polymer Rheology Based on Group Interactions. AIP Conference Proceedings, 2008, , .	0.4	0