

# Robert A Shanks

## List of Publications by Year in descending order

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270  
papers

7,821  
citations

53794

45  
h-index

79698

73  
g-index

275  
all docs

275  
docs citations

275  
times ranked

8144  
citing authors

#	ARTICLE	IF	CITATIONS
1	Composition, structure and thermal degradation of hemp cellulose after chemical treatments. <i>Polymer Degradation and Stability</i> , 2005, 89, 327-335.	5.8	472
2	Kinetics of polymer crystallisation. <i>Progress in Polymer Science</i> , 1995, 20, 651-701.	24.7	219
3	Crystallinity and structure of starch using wide angle X-ray scattering. <i>Carbohydrate Polymers</i> , 2009, 78, 543-548.	10.2	171
4	Polypropylene-“microcrystalline cellulose composites with enhanced compatibility and properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 791-799.	7.6	162
5	Properties of cementitious mortar and concrete containing micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , 2016, 120, 408-417.	7.2	152
6	PP-elastomer-filler hybrids. I. Processing, microstructure, and mechanical properties. <i>Journal of Applied Polymer Science</i> , 1996, 61, 1877-1885.	2.6	149
7	Multiple melting behaviour of poly(3-hydroxybutyrate-co-hydroxyvalerate) using step-scan DSC. <i>European Polymer Journal</i> , 2005, 41, 2980-2988.	5.4	142
8	Mechanical reprocessing of polyolefin waste: A review. <i>Polymer Engineering and Science</i> , 2015, 55, 2899-2909.	3.1	129
9	Cork-“PLA composite filaments for fused deposition modelling. <i>Composites Science and Technology</i> , 2018, 168, 230-237.	7.8	124
10	Peripheral Nerve Conduit: Materials and Structures. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3349-3365.	3.5	122
11	Interfacial improvements in poly(3-hydroxybutyrate)-flax fibre composites with hydrogen bonding additives. <i>Composites Science and Technology</i> , 2004, 64, 1321-1330.	7.8	113
12	Thermal history effects on crystallisation and melting of poly(3-hydroxybutyrate). <i>Thermochimica Acta</i> , 2004, 423, 127-135.	2.7	105
13	Structural and thermal interpretation of the synergy and interactions between the fire retardants magnesium hydroxide and zinc borate. <i>Polymer Degradation and Stability</i> , 2007, 92, 2-13.	5.8	104
14	A Gallium-Based Magnetocaloric Liquid Metal Ferrofluid. <i>Nano Letters</i> , 2017, 17, 7831-7838.	9.1	101
15	Properties of Poly(3-hydroxybutyric acid) Composites with Flax Fibres Modified by Plasticiser Absorption. <i>Macromolecular Materials and Engineering</i> , 2002, 287, 647-655.	3.6	97
16	Interlayer self-healing and toughening of carbon fibre/epoxy composites using copolymer films. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 512-518.	7.6	97
17	Thermoplastic biopolyester natural fiber composites. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2114-2121.	2.6	89
18	Fire performance of poly(dimethyl siloxane) composites evaluated by cone calorimetry. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 398-405.	7.6	86

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19	Polypropylene-polyethylene blend morphology controlled by time-temperature-miscibility. <i>Polymer</i> , 2000, 41, 2133-2139.	3.8	84
20	Phase composition and interface of starch-gelatin blends studied by synchrotron FTIR micro-spectroscopy. <i>Carbohydrate Polymers</i> , 2013, 95, 649-653.	10.2	84
21	Developing gelatin-starch blends for use as capsule materials. <i>Carbohydrate Polymers</i> , 2013, 92, 455-461.	10.2	82
22	Tensile creep behaviour of polypropylene fibre reinforced polypropylene composites. <i>Polymer Testing</i> , 2005, 24, 257-264.	4.8	81
23	Miscibility and isothermal crystallisation of polypropylene in polyethylene melts. <i>Polymer</i> , 2001, 42, 7685-7694.	3.8	77
24	Morphological and grafting modification of natural cellulose fibers. <i>Journal of Applied Polymer Science</i> , 2004, 94, 2456-2465.	2.6	77
25	The effect of fiber concentration on mechanical and thermal properties of fiber-reinforced polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2005, 96, 2260-2272.	2.6	77
26	PP/elastomer/filler hybrids. II. Morphologies and fracture. <i>Journal of Applied Polymer Science</i> , 1996, 62, 639-646.	2.6	73
27	Evaluation of polar ethylene copolymers as fire retardant nanocomposite matrices. <i>Polymer Degradation and Stability</i> , 2004, 84, 533-544.	5.8	71
28	Mechanical Behavior and Fracture Toughness of Poly(L-lactic acid)-Natural Fiber Composites Modified with Hyperbranched Polymers. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 447-456.	3.6	70
29	Advances and applications of chemical protective clothing system. <i>Journal of Industrial Textiles</i> , 2019, 49, 97-138.	2.4	70
30	Crystallisation, melting, recrystallisation and polymorphism of n-eicosane for application as a phase change material. <i>Thermochimica Acta</i> , 2006, 443, 235-244.	2.7	68
31	Composites of poly(lactic acid) with flax fibers modified by interstitial polymerization. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2305-2313.	2.6	68
32	Preparation, structure and mechanical properties of all-hemp cellulose biocomposites. <i>Composites Science and Technology</i> , 2009, 69, 2119-2126.	7.8	68
33	Molecular dynamics simulation of diffusion of O2 and CO2 in blends of amorphous poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overload	3.8	60
34	Solvent and enzyme induced recrystallization of mechanically degraded hemp cellulose. <i>Cellulose</i> , 2006, 13, 31-44.	4.9	59
35	Modification and evaluation of thermal properties of melamine-formaldehyde/n-eicosane microcapsules for thermo-regulation applications. <i>Applied Thermal Engineering</i> , 2014, 71, 11-15.	6.0	59
36	Structural, mechanical and dielectric properties of poly(ethylene-co-methyl acrylate-co-acrylic acid) graphite oxide nanocomposites. <i>Composites Science and Technology</i> , 2007, 67, 79-91.	7.8	58

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37	The effect of varied monomer composition on adhesive performance and peeling master curves for acrylic pressure-sensitive adhesives. <i>Journal of Applied Polymer Science</i> , 2004, 93, 2909-2917.	2.6	55
38	Molecular dynamics simulation of diffusion of O <sub>2</sub> and CO <sub>2</sub> in amorphous poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (t	3.8	54
39	Mechanical properties and morphology of polyethylene-polypropylene blends with controlled thermal history. <i>Journal of Applied Polymer Science</i> , 2000, 76, 1151-1164.	2.6	53
40	Morphology and Structure of Hemp Fibre after Bioscouring. <i>Macromolecular Bioscience</i> , 2005, 5, 124-134.	4.1	53
41	Effect of additives on the interfacial strength of poly(l-lactic acid) and poly(3-hydroxy butyric) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 702 Td (t	7.8	53
42	Morphology, Thermal and Mechanical Properties of Poly(propylene) Fibre-Matrix Composites. <i>Macromolecular Materials and Engineering</i> , 2003, 288, 599-606.	3.6	50
43	Melting and thermal history of poly(hydroxybutyrate-co-hydroxyvalerate) using step-scan DSC. <i>Thermochimica Acta</i> , 2005, 430, 183-190.	2.7	50
44	Functionalised graphene-multiwalled carbon nanotube hybrid poly(styrene-b-butadiene-b-styrene) nanocomposites. <i>Composites Part B: Engineering</i> , 2016, 90, 315-325.	12.0	50
45	Review on the Effects of Process Parameters on Strength, Shrinkage, and Warpage of Injection Molding Plastic Component. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 1-12.	1.9	49
46	Morphology, Thermal Stability, and Mechanical Behavior of [Poly(propylene)-grafted Maleic Anhydride]-Layered Expanded Graphite Oxide Composites. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 155-168.	3.6	48
47	Recent Advances in Polyurethane-Based Nanocomposites: A Review. <i>Polymer-Plastics Technology and Engineering</i> , 2017, 56, 1528-1541.	1.9	48
48	Crystallisation of single-site polyethylene blends investigated by thermal fractionation techniques. <i>Polymer</i> , 2001, 42, 4579-4587.	3.8	47
49	Plasma polymerised thin films for flexible electronic applications. <i>Thin Solid Films</i> , 2013, 546, 167-170.	1.8	46
50	Composites of poly(lactic acid) with flax fibers modified by interstitial polymerization. <i>Journal of Applied Polymer Science</i> , 2006, 101, 3620-3629.	2.6	45
51	Miscibility, melting, and crystallization behavior of poly(hydroxybutyrate) and poly(D,L-lactic acid) blends. <i>Polymer Engineering and Science</i> , 2008, 48, 1683-1692.	3.1	45
52	Fiber preparation and mechanical properties of recycled polypropylene for reinforcing concrete. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	44
53	Thermoplastic starch-silica-polyvinyl alcohol composites by reactive extrusion. <i>Carbohydrate Polymers</i> , 2011, 84, 343-350.	10.2	43
54	Solubility study of polyacrylamide in polar solvents. <i>Journal of Applied Polymer Science</i> , 2004, 93, 1493-1499.	2.6	42

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55	Influence of Different Woven Geometry in Poly(propylene) Woven Composites. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 45-52.	3.6	41
56	Extraction of keratin from waste chicken feathers using sodium sulfide and L-cysteine. <i>Process Biochemistry</i> , 2019, 82, 205-214.	3.7	41
57	Flexible starch-polyurethane films: Physicochemical characteristics and hydrophobicity. <i>Carbohydrate Polymers</i> , 2017, 163, 236-246.	10.2	40
58	Silica aerogel-integrated nonwoven protective fabrics for chemical and thermal protection and thermophysiological wear comfort. <i>Journal of Materials Science</i> , 2020, 55, 2405-2418.	3.7	40
59	The Effect of Chain Transfer Agent Level on Adhesive Performance and Peel Master-Curves for Acrylic Pressure Sensitive Adhesives. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 2139-2150.	2.2	39
60	Polyurethane-aerogel incorporated coating on cotton fabric for chemical protection. <i>Progress in Organic Coatings</i> , 2019, 131, 100-110.	3.9	39
61	Nanodiamond/poly- $\epsilon$ -caprolactone nanofibrous scaffold for wound management. <i>Materials Science and Engineering C</i> , 2019, 100, 378-387.	7.3	38
62	Oxygen barrier property of polypropylene-polyether treated clay nanocomposite. <i>EXPRESS Polymer Letters</i> , 2008, 2, 429-439.	2.1	38
63	Fire-retardant and fire-barrier poly(vinyl acetate) composites for sealant application. <i>EXPRESS Polymer Letters</i> , 2010, 4, 79-93.	2.1	38
64	Swelling and Mechanical Properties of Crosslinked Hydrogels Containing N-Vinylpyrrolidone. <i>Polymer International</i> , 1996, 39, 121-127.	3.1	37
65	Crystallization of low-density polyethylene- and linear low-density polyethylene-rich blends. <i>Journal of Applied Polymer Science</i> , 2000, 78, 1009-1016.	2.6	37
66	Shear rheology and thermal properties of linear and branched poly(ethylene terephthalate) blends. <i>Polymer</i> , 1999, 40, 5891-5898.	3.8	36
67	Preparation, characterisation, and <i>in vitro</i> evaluation of electrically conducting poly( $\epsilon$ -caprolactone)-based nanocomposite scaffolds using PC12 cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 853-865.	4.0	36
68	The Glass Transition of Wool: An Improved Determination Using DSC. <i>Textile Research Journal</i> , 1997, 67, 18-22.	2.2	35
69	Creep and Recovery Behaviour of Polyolefin-Rubber Nanocomposites Developed for Additive Manufacturing. <i>Polymers</i> , 2016, 8, 437.	4.5	35
70	Slip-additive migration, surface morphology, and performance on injection moulded high-density polyethylene closures. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 537-545.	9.4	35
71	Poly(L-lactic acid) composites with flax fibers modified by plasticizer absorption. <i>Polymer Engineering and Science</i> , 2003, 43, 1566-1575.	3.1	34
72	Tensile properties and creep response of polypropylene fibre composites with variation of fibre diameter. <i>Polymer International</i> , 2004, 53, 1752-1759.	3.1	34

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73	Molecular distribution analysis of melt-crystallized ethylene copolymers. <i>Polymer International</i> , 2004, 53, 1795-1805.	3.1	34
74	Aerobic biodegradation of starch/polyurethane flexible films under soil burial condition: Changes in physical structure and chemical composition. <i>International Biodeterioration and Biodegradation</i> , 2019, 145, 104793.	3.9	34
75	Crystallisation of blends of LLDPE with branched VLDPE. <i>Polymer</i> , 2000, 41, 4579-4587.	3.8	33
76	Thermoplastic Elastomers. , 0, , .		33
77	The influence of filler particles and polymer structure on the mobility of polymer molecules. <i>Journal of Applied Polymer Science</i> , 1981, 26, 3099-3102.	2.6	31
78	Synthesis and Characterisation of Branched Poly(ethylene terephthalate). <i>Polymer International</i> , 1997, 42, 267-275.	3.1	31
79	Thermophysical properties of multifunctional glass fibre reinforced polymer composites incorporating phase change materials. <i>Thermochimica Acta</i> , 2016, 642, 25-31.	2.7	31
80	Conductive polyolefin/rubber nanocomposites with carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 80, 13-20.	7.6	31
81	Polypropylene-nanodiamond composite for hernia mesh. <i>Materials Science and Engineering C</i> , 2020, 111, 110780.	7.3	31
82	Acrylic acid level and adhesive performance and peel master-curves of acrylic pressure-sensitive adhesives. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 1237-1252.	2.1	30
83	Simulation of the specific interactions between polyamide-6 and a thermoplastic polyurethane. <i>Computational and Theoretical Polymer Science</i> , 2001, 11, 57-62.	1.1	29
84	Characterization of kenaf fiber composites prepared with tributyl citrate plasticized cellulose acetate. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 70, 52-58.	7.6	29
85	Polyurethane superabsorbent polymer-coated cotton fabric for thermophysiological wear comfort. <i>Journal of Materials Science</i> , 2019, 54, 9267-9281.	3.7	29
86	Fabrication and characterisation of polymer thin-films derived from cineole using radio frequency plasma polymerisation. <i>Polymer</i> , 2009, 50, 3465-3469.	3.8	28
87	Flexible starch-polyurethane films: Effect of mixed macrodiol polyurethane ionomers on physicochemical characteristics and hydrophobicity. <i>Carbohydrate Polymers</i> , 2018, 197, 312-325.	10.2	28
88	Morphology and surface properties of high strength siloxane poly(urethane-urea)s developed for heart valve application. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019, 107, 112-121.	3.4	28
89	Formation of titanium silicides by mechanical alloying. <i>Journal of Materials Science Letters</i> , 1991, 10, 734-737.	0.5	27
90	Thermoplastic polymer dispersed liquid crystals prepared from solvent induced phase separation with predictions using solubility parameters. <i>Liquid Crystals</i> , 2007, 34, 1349-1356.	2.2	27

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91	Morphology and phase composition of gelatin-starch blends. Chinese Journal of Polymer Science (English Edition), 2014, 32, 108-114.	3.8	27
92	Properties of hydrophobically modified polyacrylamide with low molecular weight and interaction with surfactant in aqueous solution. Journal of Applied Polymer Science, 2006, 100, 4348-4360.	2.6	26
93	Imaging the phase of starch-gelatin blends by confocal Raman microscopy. Food Hydrocolloids, 2016, 60, 7-10.	10.7	26
94	Electrospun polyacrylonitrile-silica aerogel coating on viscose nonwoven fabric for versatile protection and thermal comfort. Cellulose, 2020, 27, 10501-10517.	4.9	26
95	Influence of filler particles on the mobility of polymer molecules. II. Effect of filler type. Journal of Macromolecular Science - Physics, 1981, 19, 167-176.	1.0	25
96	Isothermal crystallisation kinetics of poly(3-hydroxybutyrate) using step-scan DSC. Journal of Thermal Analysis and Calorimetry, 2006, 83, 313-319.	3.6	25
97	Time-Temperature Creep Behaviour of Poly(propylene) and Polar Ethylene Copolymer Blends. Macromolecular Materials and Engineering, 2007, 292, 184-196.	3.6	25
98	Biocomposites of Cellulose Acetate Butyrate with Modified Hemp Cellulose Fibres. Macromolecular Materials and Engineering, 2009, 294, 213-221.	3.6	25
99	Effect of salt on the glass transition of condensed tapioca starch systems. Food Chemistry, 2017, 229, 120-126.	8.2	25
100	Miscibility and crystallization of metallocene polyethylene blends with polypropylene. Journal of Applied Polymer Science, 2003, 87, 1179-1189.	2.6	24
101	Crystallization and melting of isotactic polypropylene in response to temperature modulation. Journal of Thermal Analysis and Calorimetry, 2004, 75, 233-248.	3.6	24
102	Comparison of Styrene with Methyl Methacrylate Copolymers on the Adhesive Performance and Peeling Master Curves of Acrylate Pressure Sensitive Adhesives. Macromolecular Chemistry and Physics, 2005, 206, 1015-1027.	2.2	24
103	Poly(4-vinylpyridine)-based hydrogen bonded side-chain liquid crystal polymers. Reactive and Functional Polymers, 2008, 68, 1097-1102.	4.1	24
104	Modelling of polypropylene fibre-matrix composites using finite element analysis. EXPRESS Polymer Letters, 2009, 3, 2-12.	2.1	24
105	Isothermal crystallization and spherulite structure of partially miscible polypropylene-linear low-density polyethylene blends. Journal of Applied Polymer Science, 2001, 82, 628-639.	2.6	23
106	Mechanical and thermal properties of toughened polypropylene composites. Journal of Applied Polymer Science, 2007, 105, 390-397.	2.6	23
107	Admicellar polymerization of styrene with divinyl benzene on alumina particles: the synthesis of white reinforcing fillers. Journal of Materials Science, 2006, 41, 7474-7482.	3.7	22
108	Thermoplastic Starch. , 0, , .		22

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109	Poly(caprolactone) thin film preparation, morphology, and surface texture. <i>Journal of Applied Polymer Science</i> , 2007, 103, 1287-1294.	2.6	21
110	Effect of sodium chloride on the glass transition of condensed starch systems. <i>Food Chemistry</i> , 2015, 184, 65-71.	8.2	21
111	Calcium chloride effects on the glass transition of condensed systems of potato starch. <i>Food Chemistry</i> , 2016, 199, 791-798.	8.2	21
112	Starch-polyurethane films synthesized using polyethylene glycol-isocyanate (PEG-iso): Effects of molecular weight, crystallinity, and composition of PEG-iso on physicochemical characteristics and hydrophobicity of the films. <i>Food Packaging and Shelf Life</i> , 2017, 14, 116-127.	7.5	21
113	Molecular simulation of thermophysical properties of aromatic polymers containing oxetane ring in the main chain. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 2334-2352.	2.1	20
114	Mechanical and Thermal Properties of Flexible Poly(propylene) Composites. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 59-67.	3.6	20
115	Deterioration of polyaramid and polybenzimidazole woven fabrics after ultraviolet irradiation. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	20
116	Liquid crystalline polymers: molecular simulation of some polyethers containing oxetanic rings in the main chain. <i>Computational and Theoretical Polymer Science</i> , 1997, 7, 7-11.	1.1	19
117	Analysis of additives in polymers by thin-layer chromatography coupled with Fourier transform-infrared microscopy. <i>Vibrational Spectroscopy</i> , 2002, 30, 147-156.	2.2	19
118	Thermal memory of polyethylenes analyzed by temperature modulated differential scanning calorimetry. <i>Journal of Applied Polymer Science</i> , 2003, 90, 681-692.	2.6	19
119	The synthesis and thermal properties of polyepichlorohydrin side-chain liquid crystal polymers. <i>European Polymer Journal</i> , 2005, 41, 984-991.	5.4	19
120	Creep behaviour of biopolymers and modified flax fibre composites. <i>Composite Interfaces</i> , 2008, 15, 131-145.	2.3	19
121	Trisilanolisobutyl POSS/polyurethane hybrid composites: preparation, WAXS and thermal properties. <i>Polymer Bulletin</i> , 2014, 71, 2453-2464.	3.3	19
122	Sustainable reuse of fashion waste as flame-retardant mattress filling with ecofriendly chemicals. <i>Journal of Cleaner Production</i> , 2020, 251, 119620.	9.3	19
123	A Study of Sensitizer Systems for Photoinitiated Polymerization. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1980, 14, 69-78.	0.3	18
124	The effect of temperature on the viscoelastic properties of model and industrial dispersions. <i>Journal of Rheology</i> , 1998, 42, 493-506.	2.6	18
125	Dynamic rheology of branched poly(ethylene terephthalate). <i>Polymer International</i> , 2000, 49, 203-208.	3.1	18
126	Processing, crystallization, and dynamic mechanical analysis of high molar mass polysiloxane-modified PP/CaCO <sub>3</sub> composites. <i>Journal of Applied Polymer Science</i> , 2001, 82, 3091-3098.	2.6	18



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127	Simulation of diffusion of O <sub>2</sub> and CO <sub>2</sub> in amorphous poly(ethylene terephthalate) and related alkylene and isomeric polyesters. <i>Molecular Simulation</i> , 2002, 28, 939-969.	2.0	18
128	Molecular simulation of aromatic polyesters containing oxetane rings in the main chain. <i>Computational and Theoretical Polymer Science</i> , 1999, 9, 1-9.	1.1	17
129	Crystallization and melting of highly filled polypropylene composites prepared with surface-treated fillers. <i>Journal of Applied Polymer Science</i> , 2001, 79, 1942-1948.	2.6	17
130	Miscibility behavior of metallocene polyethylene blends. <i>Journal of Applied Polymer Science</i> , 2001, 81, 2227-2236.	2.6	17
131	Design and Optimization of Biopolyester Bagasse Fiber Composites. <i>Journal of Biobased Materials and Bioenergy</i> , 2007, 1, 46-55.	0.3	17
132	Migration and performance of erucamide slip additive in high-density polyethylene bottle caps. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46822.	2.6	17
133	Re-amorphization of crystallized metallic glass Co <sub>70.3</sub> Fe <sub>4.7</sub> Si <sub>15</sub> B <sub>10</sub> ribbons by mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990, 128, 107-112.	5.6	16
134	The crystallization kinetics of filled poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 1993, 47, 2149-2160.	2.6	16
135	Synthesis and Characterisation of Side-Chain Liquid Crystalline Poly[1-({[(4-cyano-4'-biphenyl)oxy]alkyl}oxy)-2,3-epoxypropane]. <i>Macromolecular Chemistry and Physics</i> , 2004, 205, 743-751.	2.2	16
136	Thermal memory of poly(3-hydroxybutyrate) using temperature-modulated differential scanning calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006, 44, 70-78.	2.1	16
137	Novel elastomer-dumbbell functionalized POSS composites: Thermomechanical and Morphological Properties. <i>Journal of Applied Polymer Science</i> , 2012, 123, 585-600.	2.6	16
138	Diffusion of nicotinic acid in spray-dried capsules of whey protein isolate. <i>Food Hydrocolloids</i> , 2016, 52, 811-819.	10.7	16
139	The Influence of Filler Particles on the Mobility of Polymer Molecules. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1982, 17, 287-295.	0.3	15
140	Factors Affecting the Ultraviolet-Initiated Polymerization of Vinyl Monomers. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1982, 17, 77-85.	0.3	15
141	Novel elastomer dye-functionalised POSS nanocomposites: Enhanced colourimetric, thermomechanical and thermal properties. <i>EXPRESS Polymer Letters</i> , 2012, 6, 354-372.	2.1	15
142	Novel polyhedral oligomeric silsesquioxane-substituted dendritic polyester tougheners for linear thermoplastic polyurethane. <i>Journal of Applied Polymer Science</i> , 2012, 126, E440.	2.6	15
143	Design and characterization of sustainable bio-composites from waste chicken feather keratin and thermoplastic polyurethane. <i>Polymer Composites</i> , 2018, 39, E620.	4.6	15
144	Nanodiamond Fabrication of Superhydrophilic Wool Fabrics. <i>Langmuir</i> , 2019, 35, 7105-7111.	3.5	15

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145	Rheology and 3D Printability of Percolated Graphene/Polyamide-6 Composites. <i>Polymers</i> , 2020, 12, 2014.	4.5	15
146	Dynamic Mechanical Properties of Poly(propylene) Blends with Poly[ethylene-co-(methyl acrylate)]. <i>Macromolecular Materials and Engineering</i> , 2004, 289, 20-32.	3.6	14
147	Prediction of liquid crystalline properties of poly(1,4-phenylene sebacate-oxybenzoate) by Monte Carlo simulation. <i>Polymer</i> , 2005, 46, 2003-2010.	3.8	14
148	Isothermal crystallization studies of poly(butylene terephthalate) composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 1344-1353.	2.1	14
149	Thermoplastic starch-nanohybrid films with polyhedral oligomeric silsesquioxane. <i>Carbohydrate Polymers</i> , 2017, 173, 170-177.	10.2	14
150	Fabrication and characterization of nanodiamond coated cotton fabric for improved functionality. <i>Cellulose</i> , 2019, 26, 5797-5806.	4.9	14
151	Molecular simulation and experimental characterisation of monotropic and enantiotropic polymers containing azobenzene and diphenyl mesogens. <i>Computational and Theoretical Polymer Science</i> , 2001, 11, 303-318.	1.1	13
152	Conformation of polyacrylamide in aqueous solution with interactive additives and cosolvents. <i>Journal of Applied Polymer Science</i> , 2003, 89, 3122-3129.	2.6	13
153	Gelatinization and retrogradation of thermoplastic starch characterized using modulated temperature differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 106, 93-99.	3.6	13
154	Morphological structure and thermomechanical properties of hemp fibre reinforced poly(lactic acid) Nanocomposites plasticized with tributyl citrate. <i>Materials Today: Proceedings</i> , 2018, 5, 3211-3218.	1.8	13
155	Thermal properties of nanocrystalline and amorphous Fe-B alloys made by mechanical alloying. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1991, 133, 555-559.	5.6	12
156	Evaluation of recycled PP/rubber/talc hybrids. <i>Journal of Applied Polymer Science</i> , 1995, 58, 527-535.	2.6	12
157	TMDSC analysis of single-site copolymer blends after thermal fractionation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2004, 78, 349-361.	3.6	12
158	Preparation and properties of poly(propylene-g-maleic anhydride) filled with expanded graphite oxide. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1092-1100.	7.6	12
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