

Ewa Piorkowska

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121
papers

3,801
citations

28
h-index

58
g-index

133
ext. papers

4,161
ext. citations

4.1
avg. IF

5.45
L-index

#	Paper	IF	Citations
121	Crystallization, structure and properties of plasticized poly(L-lactide). <i>Polymer</i> , 2005 , 46, 10290-10300	3.9	431
120	Plasticization of poly(L-lactide) with poly(propylene glycol). <i>Biomacromolecules</i> , 2006 , 7, 2128-35	6.9	248
119	Functionalization, compatibilization and properties of polypropylene composites with Hemp fibres. <i>Composites Science and Technology</i> , 2006 , 66, 2218-2230	8.6	244
118	Plasticization of semicrystalline poly(L-lactide) with poly(propylene glycol). <i>Polymer</i> , 2006 , 47, 7178-7188	3.9	232
117	Preparation and properties of compatibilized LDPE/organo-modified montmorillonite nanocomposites. <i>European Polymer Journal</i> , 2005 , 41, 1115-1122	5.2	217
116	Composites of poly(L-lactide) with hemp fibers: Morphology and thermal and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 255-268	2.9	172
115	Mechanical and thermal properties of PLA composites with cellulose nanofibers and standard size fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 1509-1514	8.4	163
114	Structure and Properties of Homogeneous Copolymers of Propylene and 1-Hexene. <i>Macromolecules</i> , 2005 , 38, 1232-1243	5.5	122
113	Critical assessment of overall crystallization kinetics theories and predictions. <i>Progress in Polymer Science</i> , 2006 , 31, 549-575	29.6	110
112	Structure of polypropylene crystallized in confined nanolayers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 3380-3396	2.6	84
111	Crystallization of Polyethylene from Melt with Lowered Chain Entanglements. <i>Macromolecules</i> , 2000 , 33, 916-932	5.5	84
110	Crystallization of isotactic polypropylene in a temperature gradient. <i>Colloid and Polymer Science</i> , 2001 , 279, 939-946	2.4	68
109	A Structure of Copolymers of Propene and Hexene Isomorphous to Isotactic Poly(1-butene) Form I. <i>Macromolecules</i> , 2006 , 39, 5777-5781	5.5	67
108	Structure and properties of hybrid PLA nanocomposites with inorganic nanofillers and cellulose fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 82, 34-41	8.4	64
107	Mechanical and thermal properties of green polylactide composites with natural fillers. <i>Macromolecular Bioscience</i> , 2008 , 8, 1190-200	5.5	61
106	Formation and transformation of smectic polypropylene nanodroplets. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1795-1803	2.6	49
105	Shear-induced crystallization of isotactic polypropylene based nanocomposites with montmorillonite. <i>European Polymer Journal</i> , 2009 , 45, 88-101	5.2	41

104	Cavitation during isothermal crystallization of isotactic polypropylene. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 2439-2448	2.9	40
103	Size effect of compliant rubbery particles on craze plasticity in polystyrene. <i>Macromolecules</i> , 1990 , 23, 3838-3848	5.5	36
102	Biodegradable blends of poly(L-lactide) and starch. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 269-277	2.9	35
101	Toughening of polylactide by blending with a novel random aliphatic-aromatic copolyester. <i>European Polymer Journal</i> , 2014 , 59, 59-68	5.2	33
100	Modification of cotton fabric with graphene and reduced graphene oxide using sol-gel method. <i>Cellulose</i> , 2017 , 24, 4057-4068	5.5	33
99	Acoustic emission during polymer crystallization. <i>Nature</i> , 1987 , 325, 40-41	5.4	33
98	Shear-induced nonisothermal crystallization of two grades of PLA. <i>Polymer Testing</i> , 2016 , 50, 172-181	4.5	32
97	Melatonin significantly influences seed germination and seedling growth of Bertoni. <i>PeerJ</i> , 2018 , 6, e50091	5.1	32
96	PLA/ECD-based fibres loaded with quercetin as potential antibacterial dressing materials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 190, 110949	6	31
95	Morphology studies of multilayered HDPE/PS systems. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 597-612	6.2	30
94	Localized volume deficiencies as an effect of spherulite growth. I. The two-dimensional case. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1983 , 21, 1299-1312		30
93	All-polymer nanocomposites with nanofibrillar inclusions generated in situ during compounding. <i>Polymer</i> , 2013 , 54, 4617-4628	3.9	28
92	Izod impact strength of polystyrene-based blends containing low molecular weight polybutadiene. <i>Polymer</i> , 1993 , 34, 4435-4444	3.9	28
91	The influence of matrix crystallinity, filler grain size and modification on properties of PLA/calcium carbonate composites. <i>Polymer Testing</i> , 2017 , 62, 203-209	4.5	27
90	Nucleation of crystallization in isotactic polypropylene and polyoxymethylene with poly(tetrafluoroethylene) particles. <i>European Polymer Journal</i> , 2010 , 46, 1436-1445	5.2	26
89	Acoustic emission during crystallization of polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990 , 28, 1171-1186	2.6	26
88	Structure and characterization of random aliphatic-aromatic copolyester. <i>European Polymer Journal</i> , 2014 , 55, 86-97	5.2	25
87	Localized volume deficiencies as an effect of spherulite growth. II. The three-dimensional case. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1983 , 21, 1313-1322		25

86	Flow-Induced Crystallization 2013 , 399-432		24
85	Relations between morphology and micromechanical properties of alpha, beta and gamma phases of iPP. <i>Polymer Testing</i> , 2018 , 67, 522-532	4.5	23
84	Influence of thermal history on the nonisothermal crystallization of poly(L-lactide). <i>Journal of Applied Polymer Science</i> , 2007 , 105, 282-290	2.9	23
83	Statistical description of spherulite patterns. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1985 , 23, 1723-1748		23
82	Novel blends of polylactide with ethylene glycol derivatives of POSS. <i>Colloid and Polymer Science</i> , 2015 , 293, 23-33	2.4	22
81	Tough crystalline blends of polylactide with block copolymers of ethylene glycol and propylene glycol. <i>Polymer Testing</i> , 2015 , 46, 79-87	4.5	22
80	Modeling of crystallization kinetics in fiber reinforced composites. <i>Macromolecular Symposia</i> , 2001 , 169, 143-148	0.8	20
79	Tough and transparent blends of polylactide with block copolymers of ethylene glycol and propylene glycol. <i>Polymer Testing</i> , 2015 , 41, 209-218	4.5	19
78	Plasticization of polylactide with block copolymers of ethylene glycol and propylene glycol. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 4292-4301	2.9	19
77	Effect of negative pressure on melting behavior of spherulites in thin films of several crystalline polymers. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 1380-1385	2.9	19
76	Strain hardening of molten thermoplastic polymers reinforced with poly(tetrafluoroethylene) nanofibers. <i>Journal of Rheology</i> , 2014 , 58, 589-605	4.1	18
75	Crystallization of isotactic polypropylene and high-density polyethylene under negative pressure resulting from uncompensated volume change. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1993 , 31, 1285-1291	2.6	18
74	High Pressure Crystallization of HDPE Droplets. <i>Macromolecules</i> , 2008 , 41, 8086-8094	5.5	16
73	Spherulitic structure development during crystallization in confined space II. Effect of spherulite nucleation at borders. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 2319-2329	2.9	16
72	Nonisothermal Crystallization of Polymers. 1. The Background of the Mathematical Description of Spherulitic Pattern Formation. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 14007-14015		16
71	Nonisothermal shear-induced crystallization of polypropylene-based composite materials with montmorillonite. <i>European Polymer Journal</i> , 2013 , 49, 2109-2119	5.2	15
70	Nucleation of isotactic polypropylene crystallization by gold nanoparticles. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 469-478	2.6	15
69	Nonisothermal crystallization of polymers in samples of finite dimensions. <i>Colloid and Polymer Science</i> , 1997 , 275, 1046-1059	2.4	15

68	Modeling of polymer crystallization in a temperature gradient. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 1351-1362	2.9	15
67	Nucleation of crystallization of isotactic polypropylene in the gamma form under high pressure in nonisothermal conditions. <i>European Polymer Journal</i> , 2016 , 85, 564-574	5.2	14
66	Polylactide composites with waste cotton fibers: Thermal and mechanical properties. <i>Polymer Composites</i> , 2014 , 35, 747-751	3	14
65	Method of determining the kinetics of spherulite primary nucleation from the truncation of spherulites. <i>Polymer Bulletin</i> , 1979 , 1, 275-279	2.4	14
64	Modification of dual-component fibrous materials with carbon nanotubes and methyltrichlorosilane. <i>Materials and Design</i> , 2019 , 162, 219-228	8.1	14
63	Nonisothermal Crystallization of Polymers. 2. The Mathematical Description of Spherulitic Pattern Formation. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 14016-14023		13
62	Influence of sample thickness and surface nucleation on i-PP crystallization kinetics in DSC measurements. <i>Polimery</i> , 2003 , 48, 790-799	3.4	13
61	The effect of halloysite nanotubes and N,N'-ethylenebis (stearamide) on the properties of polylactide nanocomposites with amorphous matrix. <i>Polymer Testing</i> , 2017 , 61, 35-45	4.5	12
60	Influence of solid particles on cavitation in poly(methylene oxide) during crystallization. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1053-1062	2.9	12
59	Nonisothermal Crystallization of Polymers. 3. The Mathematical Description of the Final Spherulitic Pattern. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 14024-14031		12
58	Statistical approach to the description of spherulite patterns. Two-and three-dimensional cases. <i>Colloid and Polymer Science</i> , 1983 , 261, 1-8	2.4	12
57	Mechanisms of plastic deformation in biodegradable polylactide/poly(1,4-cis-isoprene) blends. <i>Journal of Applied Polymer Science</i> , 2011 , 124, n/a-n/a	2.9	11
56	Electrically conductive composite textiles modified with graphene using sol-gel method. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 22-28	5.7	11
55	Electrically conductive and hydrophobic rGO-containing organosilicon coating of cotton fabric. <i>Progress in Organic Coatings</i> , 2019 , 137, 105312	4.8	10
54	Nucleation and crystallization of random aliphatic-butylene terephthalate copolyester. <i>European Polymer Journal</i> , 2015 , 71, 289-303	5.2	10
53	The role of nucleating agents in high-pressure-induced gamma crystallization in isotactic polypropylene. <i>Colloid and Polymer Science</i> , 2015 , 293, 665-675	2.4	10
52	Modeling of polymer crystallization in plates, pipes, and rods during cooling. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 1363-1372	2.9	10
51	Method of determining the kinetics of spherulite primary nucleation from the spherulite shapes in bulk samples. <i>Polymer Bulletin</i> , 1980 , 2, 1-6	2.4	10

50	Conductive cotton fabric through thermal reduction of graphene oxide enhanced by commercial antioxidants used in the plastics industry. <i>Cellulose</i> , 2019 , 26, 2191-2199	5.5	10
49	The effect of halloysite nanotubes and N,N'-ethylenebis (stearamide) on morphology and properties of polylactide nanocomposites with crystalline matrix. <i>Polymer Testing</i> , 2017 , 64, 83-91	4.5	9
48	Conductive and superhydrophobic cotton fabric through pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) assisted thermal reduction of graphene oxide and modification with methyltrichlorosilane. <i>Cellulose</i> , 2018 , 25, 5377-5388	5.5	9
47	Crystallization, structure and properties of polylactide/ladder poly(silsesquioxane) blends. <i>Polymer</i> , 2020 , 201, 122563	3.9	8
46	Nucleation of Polypropylene Crystallization with Gold Nanoparticles. Part 2: Relation between Particle Morphology and Nucleation Activity. <i>Journal of Macromolecular Science - Physics</i> , 2016 , 55, 393-410	4.4	8
45	On the structure and nucleation mechanism in nucleated isotactic polypropylene crystallized under high pressure. <i>Polymer</i> , 2018 , 151, 179-186	3.9	8
44	Overall Crystallization Kinetics 2013 , 215-236		8
43	High-pressure crystallization of isotactic polypropylene droplets. <i>Colloid and Polymer Science</i> , 2012 , 290, 1599-1607	2.4	8
42	Thermal effects due to polymer crystallization. <i>Journal of Applied Polymer Science</i> , 1997 , 66, 1015-1028	2.9	8
41	Shear-induced non-isothermal crystallization of poly(butylene adipate-co-terephthalate). <i>Polymer Testing</i> , 2020 , 85, 106420	4.5	7
40	Novel Tough Crystalline Blends of Polylactide with Ethylene Glycol Derivative of POSS. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 145-151	4.5	7
39	Toughening of syndiotactic polypropylene with chalk. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	7
38	Melting 2013 , 265-286		7
37	Polypropylene Nanocomposites [Preparation and Properties. <i>Solid State Phenomena</i> , 2003 , 94, 335-338	0.4	7
36	Heat conduction anisotropy of drawn high density polyethylene samples. <i>Colloid and Polymer Science</i> , 1982 , 260, 735-741	2.4	7
35	The influence of crystallization conditions on the macromolecular structure and strength of Epolypropylene. <i>Thermochimica Acta</i> , 2019 , 677, 131-138	2.9	6
34	Crystallization in Processing Conditions 2013 , 433-462		6
33	Crystallization in Polymer Composites and Nanocomposites 2013 , 379-398		6

32	Influence of the liberation of heat of fusion on the temperature near the crystallization front in polymers. <i>Polymer</i> , 1992 , 33, 3985-3989	3.9	6
31	Nanocomposites of polypropylene and polyethylene with montmorillonite type clays. <i>Polimery</i> , 2004 , 49, 240-247	3.4	6
30	Crystallization kinetics of polymer fibrous nanocomposites. <i>European Polymer Journal</i> , 2016 , 83, 181-201	5.2	6
29	Stiff Biodegradable Polylactide Composites with Ultrafine Cellulose Filler. <i>Journal of Polymers and the Environment</i> , 2017 , 25, 74-80	4.5	5
28	Spherulitic structure development during crystallization in a finite volume. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 1373-1385	2.9	5
27	Measurements of thermal conductivity of materials using a transient technique. I. Theoretical background. <i>Journal of Applied Physics</i> , 1986 , 60, 485-492	2.5	5
26	Influence of compatibilizer type, polypropylene molecular weight and blending sequence on montmorillonite exfoliation in nanocomposites. <i>Polimery</i> , 2004 , 49, 52-55	3.4	5
25	Structure, thermal and mechanical properties of polypropylene composites with nano- and micro-diamonds. <i>Polimery</i> , 2015 , 60, 331-336	3.4	5
24	Overview of Biobased Polymers. <i>Advances in Polymer Science</i> , 2019 , 1-35	1.3	5
23	Crystallization of star-shaped and linear poly(l-lactide)s. <i>European Polymer Journal</i> , 2018 , 105, 126-134	5.2	5
22	Nucleation of Polypropylene with Gold Nanoparticles. Part 1: Introduction of Sandwich Method for Evaluation of Very Weak Nucleation Activity. <i>Journal of Macromolecular Science - Physics</i> , 2010 , 49, 392-404	4.4	4
21	Multifunctional polylactide nonwovens with 3D network of multiwall carbon nanotubes. <i>Applied Surface Science</i> , 2020 , 527, 146898	6.7	3
20	Nucleated crystallization of isotactic polypropylene in multilayered sandwich nanocomposites with gold particles. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 4338-4346	2.9	3
19	Morphology of iPP spherulites crystallized in a temperature gradient. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 1318-1328	2.9	3
18	Methods of measurements of thermal conductivity coefficient of polymers. Part I. Indirect methods. <i>Polimery</i> , 1985 , 30, 181-184	3.4	3
17	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical Report). Part 1: characterizing molecular weight. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1469-1483	2.1	3
16	Crystallization of Polymers in a Temperature Gradient. <i>International Journal of Forming Processes</i> , 2004 , 7, 195-208		3
15	New Possibilities in the Description of Overall Crystallization of Polymers. <i>Journal of Macromolecular Science - Physics</i> , 2003 , 42, 773-792	1.4	2

14	Measurements of thermal conductivity of materials using a transient technique. II. Description of the apparatus. <i>Journal of Applied Physics</i> , 1986 , 60, 493-498	2.5	2
13	Spherulite nucleation density from thin sections of bulk samples. <i>Polimery</i> , 2004 , 49, 698-705	3.4	2
12	Modification of physical properties of polylactide. <i>Polimery</i> , 2005 , 50, 562-569	3.4	2
11	Plasticization of polylactide. <i>Polimery</i> , 2009 , 54, 083-090	3.4	2
10	Modification of Polylactide Nonwovens with Carbon Nanotubes and Ladder Poly(silsesquioxane). <i>Molecules</i> , 2021 , 26,	4.8	2
9	High-Pressure Crystallization of iPP Nucleated with 1,3:2,4-bis(3,4-dimethylbenzylidene)sorbitol. <i>Polymers</i> , 2021 , 13,	4.5	2
8	Antibacterial Electroconductive Composite Coating of Cotton Fabric.. <i>Materials</i> , 2022 , 15,	3.5	1
7	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical Report). Part 2: crystallinity and supra molecular structure. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1485-1501	2.1	1
6	Significant modification of the surface morphology of polylactide (PLA) and PLA-halloysite nanocomposites in the presence of N,N-ethylenebis(stearamide) upon thermal treatment. <i>EXPRESS Polymer Letters</i> , 2020 , 14, 1155-1168	3.4	1
5	Supramolecular interactions involving fluoroaryl groups in hybrid blends of polylactide and ladder polysilsesquioxanes. <i>Polymer Testing</i> , 2021 , 94, 107033	4.5	1
4	Antibacterial electroconductive rGO modified cotton fabric. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 3975-3981	3.2	0
3	Collagen precipitation on tendon collagen fibrils. <i>Acta Polymerica</i> , 1981 , 32, 486-488		
2	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical Report). Part 3: deformation, wear and fracture. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1503-1519	2.1	1
1	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical Report). Part 4: sporadic fatigue crack propagation. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1521-1536	2.1	1