Andrzej GaÅ‚Äski

List of Publications by Year
in descending order

125 papers	6,651 citations	61857 43 h-index	64668 79 g-index
129 all docs	129 docs citations	129 times ranked	5195 citing authors

#	Article	IF	Citations
1	The Modulus of the Amorphous Phase of Semicrystalline Polymers. Macromolecules, 2021, 54, 9113-9123.	2.2	27
2	Cavitation in strained polyethylene/nanographene nanocomposites. Polymer, 2021, 232, 124158.	1.8	5
3	Design of hybrid PLA/PBS/POM composite based on In-Situ formation of interpenetrating fiber networks. Composites Part A: Applied Science and Manufacturing, 2021, 151, 106667.	3.8	6
4	Nanofibrillar green composites of polylactide/polyamide produced in situ due to shear induced crystallization. Composites Communications, 2020, 22, 100512.	3.3	13
5	PBAT green composites: Effects of kraft lignin particles on the morphological, thermal, crystalline, macro and micromechanical properties. Polymer, 2020, 203, 122748.	1.8	70
6	Morphology and Plastic Yielding of Ultrahigh Molecular Weight Polyethylene. Macromolecules, 2020, 53, 6063-6077.	2.2	28
7	Cavitation in high density polyethylene/Al2O3 nanocomposites. Composites Science and Technology, 2020, 199, 108323.	3.8	8
8	Microstructural Evolution of Poly(Îµ-Caprolactone), Its Immiscible Blend, and In Situ Generated Nanocomposites. Polymers, 2020, 12, 2587.	2.0	9
9	Plasticization of Polylactide after Solidification: An Effectiveness and Utilization for Correct Interpretation of Thermal Properties. Polymers, 2020, 12, 561.	2.0	10
10	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	0
11	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical) Tj ETQq1 1 0.784314 rgBT /Ove 1485-1501.	0.9	3
12	Structure, processing and performance of ultra-high molecular weight polyethylene (IUPAC Technical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	0
13	Nanofibrillar Green Composites of Polylactide/Polyhydroxyalkanoate Produced in Situ Due to Shear Induced Crystallization. Polymers, 2019, 11, 1811.	2.0	12
14	Crystallization of Polypropylene. , 2019, , 185-242.		5
15	In situ generation of sustainable PLA-based nanocomposites by shear induced crystallization of nanofibrillar inclusions. RSC Advances, 2019, 9, 30370-30380.	1.7	20
16	Inhibited crystallization of polyhydroxybutyrate by blending with aliphatic-aromatic copolyester. European Polymer Journal, 2018, 103, 133-144.	2.6	6
17	Recent developments in nanocellulose-based biodegradable polymers, thermoplastic polymers, and porous nanocomposites. Progress in Polymer Science, 2018, 87, 197-227.	11.8	350
18	Cavitation phenomenon and mechanical properties of partially disentangled polypropylene. Polymer, 2018, 151, 15-26.	1.8	25

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19	Rubber toughened polyester cellulose nanocomposites. AIP Conference Proceedings, 2018, , .	0.3	0
20	Ductility of polylactide composites reinforced with polyhydroxyalkanoates nanofibers. AIP Conference Proceedings, 2018, , .	0.3	1
21	Effect of poly(tetrafluoroethylene) nanofibers on foaming behavior of linear and branched polypropylenes. European Polymer Journal, 2017, 88, 171-182.	2.6	26
22	The crystallization of polypropylene with reduced density of entanglements. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 748-756.	2.4	35
23	Classification of aliphatic-butylene terephthalate copolyesters in relation to aliphatic/aromatic ratio. Polymer, 2017, 113, 119-134.	1.8	18
24	Deformation of disentangled polypropylene crystalline grains into nanofibers. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1983-1994.	2.4	17
25	Thermoplastic elastomers reinforced with poly(tetrafluoroethylene) nanofibers. European Polymer Journal, 2016, 80, 58-69.	2.6	22
26	Crystallization kinetics of polymer fibrous nanocomposites. European Polymer Journal, 2016, 83, 181-201.	2.6	11
27	Ductility of polylactide composites reinforced with poly(butylene succinate) nanofibers. Composites Part A: Applied Science and Manufacturing, 2016, 90, 218-224.	3.8	21
28	Toughening of syndiotactic polypropylene with chalk. Journal of Applied Polymer Science, 2016, 133, .	1.3	7
29	Physical state of the amorphous phase of polypropylene-influence on free volume and cavitation phenomenon. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 531-543.	2.4	28
30	Investigation on the Melt Processing of Biodegradable Aliphatic-Aromatic Polyester into Fibrous Products. Fibres and Textiles in Eastern Europe, 2016, 24, 58-64.	0.2	2
31	Orientation of PVDF Î± and Î³ crystals in nanolayered films. Colloid and Polymer Science, 2015, 293, 1289-1297.	1.0	61
32	Crystalline Lamellae Fragmentation during Drawing of Polypropylene. Macromolecules, 2015, 48, 5310-5322.	2.2	47
33	Nucleation and crystallization of random aliphatic-butylene terephtalate copolyester. European Polymer Journal, 2015, 71, 289-303.	2.6	11
34	Formation of polypropylene nanofibers by solid state deformation during blending with molten polyethylene. Polimery, 2015, 61, 664-666.	0.4	7
35	The influence of chemical composition of aliphatic-aromatic copolyesters on their properties. , 2014, , .		0
36	Investigation of Processability of Chain-Extended Polylactides During Melt Processing - Compounding Conditions and Polymer Molecular Structure. Macromolecular Materials and Engineering, 2014, 299, 307-318.	1.7	33

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37	Strain hardening of molten thermoplastic polymers reinforced with poly(tetrafluoroethylene) nanofibers. Journal of Rheology, 2014, 58, 589-605.	1.3	27
38	Cavitation during deformation of semicrystalline polymers. Progress in Polymer Science, 2014, 39, 921-958.	11.8	254
39	Structure and characterization of random aliphaticâ€“aromatic copolyester. European Polymer Journal, 2014, 55, 86-97.	2.6	31
40	All-polymer nanocomposites with nanofibrillar inclusions generated in situ during compounding. Polymer, 2013, 54, 4617-4628.	1.8	39
41	Thermovision studies of plastic deformation and cavitation in polypropylene. Mechanics of Materials, 2013, 67, 104-118.	1.7	32
42	Tough blends of poly(lactide) and amorphous poly([R,S]-3-hydroxy butyrate) â€“ morphology and properties. European Polymer Journal, 2013, 49, 3630-3641.	2.6	102
43	Plastic yielding of semicrystalline polymers affected by amorphous phase. International Journal of Plasticity, 2013, 41, 14-29.	4.1	86
44	Plasticity of semicrystalline polyethylenes viewed through the prism of thermodynamics. Journal of Applied Polymer Science, 2012, 125, 4169-4176.	1.3	2
45	Impactâ€modified polylactideâ€“calcium sulfate composites: Structure and properties. Journal of Applied Polymer Science, 2012, 125, 4302-4315.	1.3	18
46	Structure and molecular dynamics of multilayered polycarbonate/polystyrene films. Journal of Applied Polymer Science, 2012, 125, 4267-4274.	1.3	8
47	Deformation of the ultraâ€high molecular weight polyethylene melt in the planeâ€strain compression. Journal of Applied Polymer Science, 2012, 125, 4155-4168.	1.3	14
48	Melt processing, mechanical, and fatigue crack propagation properties of reactively compatibilized blends of polyamide 6 and acrylonitrileâ€“butadieneâ€“styrene copolymer. Journal of Applied Polymer Science, 2012, 124, 740-754.	1.3	7
49	Modification of amorphous phase of semicrystalline polymers. Polimery, 2012, 57, 433-440.	0.4	13
50	Initiation of Cavitation of Polypropylene during Tensile Drawing. Macromolecules, 2011, 44, 20-28.	2.2	80
51	Controlling Cavitation of Semicrystalline Polymers during Tensile Drawing. Macromolecules, 2011, 44, 7273-7287.	2.2	67
52	Thermodynamics of inelastic deformation of amorphous and crystalline phases in linear polyethylene. Polymer Science - Series A, 2011, 53, 775-786.	0.4	6
53	Cavitation during tensile drawing of semicrystalline polymers. Polimery, 2011, 56, 627-636.	0.4	9
54	Cavitation during tensile drawing of annealed high density polyethylene. Polymer, 2010, 51, 5771-5779.	1.8	67

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55	Morphology of undeformed and deformed polyethylene lamellar crystals. Polymer, 2010, 51, 5780-5787.	1.8	37
56	Cavitation and morphological changes in polypropylene deformed at elevated temperatures. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1271-1280.	2.4	83
57	Plasticity of Semicrystalline Polymers. Macromolecular Symposia, 2010, 294, 67-90.	0.4	104
58	Cavitation during Drawing of Crystalline Polymers. Macromolecular Symposia, 2010, 298, 1-9.	0.4	35
59	Gauche-trans transitions in amorphous polymers under annealing: Lattice model and polarized light scattering. Physical Review E, 2009, 79, 041801.	0.8	7
60	Orientation of polyoxymethylene by plane strain compression and rolling with side constraints. Plastics, Rubber and Composites, 2009, 38, 10-12.	0.9	0
61	Shear-induced crystallization of isotactic polypropylene based nanocomposites with montmorillonite. European Polymer Journal, 2009, 45, 88-101.	2.6	46
62	Confined Crystallization of Polyethylene Oxide in Nanolayer Assemblies. Science, 2009, 323, 757-760.	6.0	334
63	Polylactide compositions. The influence of ageing on the structure, thermal and viscoelastic properties of PLA/calcium sulfate composites. Polymer Degradation and Stability, 2008, 93, 925-931.	2.7	55
64	Orientation of polyoxymethylene by rolling with side constraints. Polymer, 2008, 49, 303-316.	1.8	33
65	Low density polyethyleneâ€“montmorillonite nanocomposites for film blowing. European Polymer Journal, 2008, 44, 270-286.	2.6	68
66	Cavitation during Tensile Deformation of Polypropylene. Macromolecules, 2008, 41, 2839-2851.	2.2	185
67	High Pressure Crystallization of HDPE Droplets. Macromolecules, 2008, 41, 8086-8094.	2.2	16
68	Plastic Deformation of Amorphous Poly(l/dl-lactide):Â Structure Evolution and Physical Properties. Biomacromolecules, 2007, 8, 1836-1843.	2.6	46
69	Morphology and texture development of uniaxially stretched poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (na	1.3	3
70	Influence of thermal history on the nonisothermal crystallization of poly(L-lactide). Journal of Applied Polymer Science, 2007, 105, 282-290.	1.3	24
71	Thermal stability of nanoclay polypropylene composites by simultaneous DSC and TGA. Composites Science and Technology, 2007, 67, 3442-3447.	3.8	151
72	Polylactide compositions. II. Correlation between morphology and main properties of PLA/calcium sulfate composites. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2770-2780.	2.4	39

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73	Plastic Deformation of the Î³ Phase in Isotactic Polypropylene in Plane-Strain Compression. Macromolecules, 2006, 39, 4811-4819.	2.2	71
74	A Structure of Copolymers of Propene and Hexene Isomorphous to Isotactic Poly(1-butene) Form I. Macromolecules, 2006, 39, 5777-5781.	2.2	72
75	Formation and transformation of smectic polypropylene nanodroplets. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1795-1803.	2.4	52
76	Morphological alteration and strength of polyamide 6 subjected to high planeâ€“strain compression. Polymer, 2006, 47, 3171-3185.	1.8	14
77	Plastic deformation behavior of Î²-phase isotactic polypropylene in plane-strain compression at room temperature. Polymer, 2006, 47, 8562-8574.	1.8	93
78	Critical assessment of overall crystallization kinetics theories and predictions. Progress in Polymer Science, 2006, 31, 549-575.	11.8	127
79	Plasticization of semicrystalline poly(l-lactide) with poly(propylene glycol). Polymer, 2006, 47, 7178-7188.	1.8	260
80	Morphology studies of multilayered HDPE/PS systems. Journal of Applied Polymer Science, 2006, 99, 597-612.	1.3	34
81	Study on the process of preparation of polypropylene nanocomposite with montmorillonite. Polimery, 2006, 51, 374-381.	0.4	15
82	Plastic deformation of polyethylene crystals as a function of crystal thickness and compression rate. Polymer, 2005, 46, 8926-8936.	1.8	94
83	Rate mechanisms of plasticity in semi-crystalline polyethylene. Polymer, 2005, 46, 11798-11805.	1.8	52
84	Preparation and properties of compatibilized LDPE/organo-modified montmorillonite nanocomposites. European Polymer Journal, 2005, 41, 1115-1122.	2.6	238
85	Plastic Deformation of Crystalline Polymers:Â The Role of Cavitation and Crystal Plasticity. Macromolecules, 2005, 38, 9688-9697.	2.2	254
86	Reactive mixing of PET and PET/PP blends with glycidyl methacrylate-modified styrene-b-(ethylene-co-olefin) block copolymers. Journal of Applied Polymer Science, 2005, 98, 2201-2211.	1.3	44
87	Structure and Properties of Homogeneous Copolymers of Propylene and 1-Hexene. Macromolecules, 2005, 38, 1232-1243.	2.2	137
88	Recycling of PET and Polyolefin Based Packaging Materials by Reactive Blending. Polymer-Plastics Technology and Engineering, 2004, 43, 1711-1722.	1.9	34
89	Structure of polypropylene crystallized in confined nanolayers. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3380-3396.	2.4	93
90	Spherulite nucleation in isotactic polypropylene based nanocomposites with montmorillonite under shear. Polymer, 2004, 45, 4877-4892.	1.8	87

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91	Influence of compatibilizer type, polypropylene molecular weigth and blending sequence on montmorillonite exfoliation in nanocomposites. Polimery, 2004, 49, 52-55.	0.4	5
92	Nanocomposites of polypropylene and polyethylene with montmorillonite type clays. Polimery, 2004, 49, 240-247.	0.4	6
93	Texture and morphology of biaxially stretched poly(ethylene naphthalene-2,6-dicarboxylate). Journal of Applied Polymer Science, 2003, 89, 2224-2232.	1.3	8
94	Strength and toughness of crystalline polymer systems. Progress in Polymer Science, 2003, 28, 1643-1699.	11.8	484
95	New Possibilities in the Description of Overall Crystallization of Polymers. Journal of Macromolecular Science - Physics, 2003, 42, 773-792.	0.4	2
96	Cavitation and cavity-free deformation of filled crystalline polymer systems. Macromolecular Symposia, 2003, 194, 47-62.	0.4	24
97	Dynamic mechanical properties of crystalline polymer blends. The influence of interface and orientation. E-Polymers, 2002, 2, .	1.3	2
98	Compatibilization and properties of poly(ethylene terephthalate)/polyethylene blends based on recycled materials. Macromolecular Chemistry and Physics, 2002, 203, 1473-1485.	1.1	98
99	Transformation of polyethylene crystals by high-pressure annealing. Journal of Applied Polymer Science, 2002, 86, 1337-1350.	1.3	26
100	Modeling of polymer crystallization in plates, pipes, and rods during cooling. Journal of Applied Polymer Science, 2002, 86, 1363-1372.	1.3	10
101	Crystalline and supermolecular structure of polylactide in relation to the crystallization method. Journal of Applied Polymer Science, 2002, 86, 1386-1395.	1.3	97
102	Deformation of high-density polyethylene produced by rolling with side constraints. II. Mechanical properties of oriented bars. Journal of Applied Polymer Science, 2002, 86, 1405-1412.	1.3	17
103	Structure and properties of isotactic polypropylene oriented by rolling with side constraints. Journal of Applied Polymer Science, 2002, 86, 1413-1425.	1.3	42
104	High-strength uniaxially drawn tapes from scrap recycled poly(ethylene terephthalate). Journal of Applied Polymer Science, 2002, 86, 1426-1435.	1.3	11
105	Determination of stresses around beads in stressed epoxy resin by photoelasticity. Journal of Applied Polymer Science, 2002, 86, 1436-1444.	1.3	21
106	Recycling of postconsumer poly(ethylene terephthalate) and high-density polyethylene by compatibilized blending. Journal of Applied Polymer Science, 2002, 86, 1473-1485.	1.3	64
107	Oriented films from recycled poly(ethylene terephthalate)/recycled high-density polyethylene compatibilized blends. Journal of Applied Polymer Science, 2002, 86, 1486-1496.	1.3	17
108	Polylactide/montmorillonite nanocomposites and microcomposites prepared by melt blending: Structure and some physical properties. Journal of Applied Polymer Science, 2002, 86, 1497-1506.	1.3	348

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109	Reactive compatibilization and properties of recycled poly(ethylene terephthalate)/polyethylene blends. Polymer Bulletin, 2002, 48, 67-74.	1.7	39
110	Compatibilization, processing and properties of post-consumer PET/polyolefin blends. Polimery, 2002, 47, 491-499.	0.4	4
111	Photoelastic studies of residual stresses around fillers embedded in an epoxy matrix. Macromolecular Symposia, 2001, 169, 197-210.	0.4	11
112	Phase structure and viscoelastic properties of compatibilized blends of PET and HDPE recyclates. Journal of Applied Polymer Science, 2001, 82, 1423-1436.	1.3	53
113	Rolling of polymeric materials with side constraints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 317, 21-27.	2.6	17
114	Ternary blends of high-density polyethylene-polystyrene-poly(ethylene/butylene-b-styrene) copolymers: Properties and orientation behavior in plane-strain compression. Journal of Applied Polymer Science, 2000, 76, 1746-1761.	1.3	19
115	Characterization of scrap poly(ethylene terephthalate). European Polymer Journal, 2000, 36, 1875-1884.	2.6	73
116	Changes in the morphology and orientation of bulk spherulitic polypropylene due to plane-strain compression. Polymer, 2000, 41, 2271-2288.	1.8	69
117	Crystal phase and crystallinity of polyamide 6/functionalized polyolefin blends. Polymer, 2000, 41, 4923-4932.	1.8	63
118	Crystallization of Polyethylene from Melt with Lowered Chain Entanglements. Macromolecules, 2000, 33, 916-932.	2.2	100
119	‹title›Plastic deformation of the amorphous component in semicrystalline polymers‹/title›. , 1997, , .		0
120	Residual stresses in epoxy systems by 3-D photoelastic method. Polymer Engineering and Science, 1996, 36, 2727-2735.	1.5	5
121	Photoelastic method of three-dimensional stress determination around axisymmetric inclusions. Polymer Engineering and Science, 1996, 36, 2736-2749.	1.5	4
122	Plastic deformation of polymer blends with crystallizable components. Macromolecular Symposia, 1994, 78, 187-201.	0.4	0
123	Influence of the liberation of heat of fusion on the temperature near the crystallization front in polymers. Polymer, 1992, 33, 3985-3989.	1.8	6
124	Morphology of nylon 6 spherulites in bulk. Die Makromolekulare Chemie, 1987, 188, 1195-1204.	1.1	35
125	Growth sites in space and time. The Journal of Physical Chemistry, 1985, 89, 4700-4703.	2.9	17