

Anna Szymczyk

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76
papers

1,160
citations

19
h-index

31
g-index

82
ext. papers

1,354
ext. citations

3.2
avg, IF

4.63
L-index

#	Paper	IF	Citations
76	Structure and properties of new polyester elastomers composed of poly(trimethylene terephthalate) and poly(ethylene oxide). <i>European Polymer Journal</i> , 2009 , 45, 2653-2664	5.2	80
75	Design, synthesis, characterization and optimization of PTT-b-PEO copolymers: A new membrane material for CO ₂ separation. <i>Journal of Membrane Science</i> , 2010 , 362, 407-416	9.6	79
74	New multiblock poly(ether-ester)s based on poly(trimethylene terephthalate) as rigid segments. <i>European Polymer Journal</i> , 2008 , 44, 436-443	5.2	68
73	Influence of preparation procedure on the conductivity and transparency of SWCNT-polymer nanocomposites. <i>Composites Science and Technology</i> , 2009 , 69, 1867-1872	8.6	57
72	Preparation and characterization of nanocomposites based on COOH functionalized multi-walled carbon nanotubes and on poly(trimethylene terephthalate). <i>EXPRESS Polymer Letters</i> , 2011 , 5, 977-995	3.4	49
71	Synergetic effect of single-walled carbon nanotubes (SWCNT) and graphene nanoplatelets (GNP) in electrically conductive PTT-block-PTMO hybrid nanocomposites prepared by in situ polymerization. <i>Composites Science and Technology</i> , 2015 , 118, 72-77	8.6	46
70	Electrical conductivity of poly(ethylene terephthalate)/expanded graphite nanocomposites prepared by in situ polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1645-1652	2.6	45
69	Laser-induced periodic surface structures nanofabricated on poly(trimethylene terephthalate) spin-coated films. <i>Langmuir</i> , 2012 , 28, 7938-45	4	44
68	Synthesis and characterization of poly(ethylene terephthalate-co-1,4-cyclohexanedimethylene terephthalate)-block-poly(tetramethylene oxide) copolymers. <i>RSC Advances</i> , 2017 , 7, 41745-41754	3.7	40
67	Electrically and Thermally Conductive Low Density Polyethylene-Based Nanocomposites Reinforced by MWCNT or Hybrid MWCNT/Graphene Nanoplatelets with Improved Thermo-Oxidative Stability. <i>Nanomaterials</i> , 2018 , 8,	5.4	37
66	Structure and properties of nanocomposites based on PTT-block-PTMO copolymer and graphene oxide prepared by in situ polymerization. <i>European Polymer Journal</i> , 2014 , 50, 69-77	5.2	35
65	Effect of chemical structure on the subglass relaxation dynamics of biobased polyesters as revealed by dielectric spectroscopy: 2,5-furandicarboxylic acid vs. trans-1,4-cyclohexanedicarboxylic acid. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15696-15706	3.6	35
64	Fully biobased multiblock copolymers of furan-aromatic polyester and dimerized fatty acid: Synthesis and characterization. <i>Polymer</i> , 2016 , 99, 503-512	3.9	34
63	Nematic-to-isotropic photo-induced phase transition in azobenzene-doped low-molar liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 4244-50	3.6	30
62	The influence of soft segment length on structure and properties of poly(trimethylene terephthalate)-block-poly(tetramethylene oxide) segmented random copolymers. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 72-83	3.2	27
61	Enhanced thermal and mechanical properties of poly(trimethylene terephthalate)-block-poly(tetramethylene oxide) segmented copolymer based hybrid nanocomposites prepared by in situ polymerization via synergy effect between SWCNTs and graphene nanoplatelets. <i>EXPRESS Polymer Letters</i> , 2015 , 9, 509-524	3.4	26
60	Poly(trimethylene terephthalate)-block-tetramethylene oxide) elastomer/single-walled carbon nanotubes nanocomposites: Synthesis, structure, and properties. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 796-807	2.9	26

59	Improved Thermal Conductivity of Poly(trimethylene terephthalate-block -poly(tetramethylene oxide) Based Nanocomposites Containing Hybrid Single-Walled Carbon Nanotubes/Graphene Nanoplatelets Fillers. <i>Advances in Polymer Technology</i> , 2017 , 36, 236-242	1.9	22
58	Synthesis and structure-property relationship of biobased poly(butylene 2,5-furanoate) block (dimerized fatty acid) copolymers. <i>Polymer</i> , 2017 , 130, 26-38	3.9	22
57	Electrical conductivity and transparency of polymer hybrid nanocomposites based on poly(trimethylene terephthalate) containing single walled carbon nanotubes and expanded graphite. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	19
56	The influence of different shaped nanofillers (1D, 2D) on barrier and mechanical properties of polymer hybrid nanocomposites based on PET prepared by in situ polymerization. <i>Polymer Composites</i> , 2016 , 37, 1949-1959	3	17
55	Influence of intercalated organoclay on the phase structure and physical properties of PTT/PTMO block copolymers. <i>Polymer Bulletin</i> , 2013 , 70, 1575-1590	2.4	17
54	Influence of expanded graphite (EG) and graphene oxide (GO) on physical properties of PET based nanocomposites. <i>Polish Journal of Chemical Technology</i> , 2014 , 16, 45-50	1	14
53	Ethylene vinyl acetate copolymer/halloysite nanotubes nanocomposites with enhanced mechanical and thermal properties. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49135	2.9	13
52	Effect of exfoliated graphite nanoplatelets size on the phase structure, electrical, and barrier properties of poly(trimethylene terephthalate)-based nanocomposites. <i>Polymer Engineering and Science</i> , 2015 , 55, 2222-2230	2.3	13
51	Sulfonated poly(ether-block-ester) ionomers with anions in the polyester hard segments. <i>Polymers for Advanced Technologies</i> , 1999 , 10, 579-587	3.2	12
50	Degradation and stabilization of thermoplastic ether-ester elastomers (TPE-E). <i>Polimery</i> , 2006 , 51, 627-642	3.2	12
49	Recommendations for replacing PET on packaging, fiber, and film materials with biobased counterparts. <i>Green Chemistry</i> , 2021 , 23, 8795-8820	10	12
48	New functional nanocomposites based on poly(trimethylene 2,5-furanoate) and few layer graphene prepared by in situ polymerization. <i>EXPRESS Polymer Letters</i> , 2018 , 12, 530-542	3.4	12
47	Oxygen Barrier Properties and Melt Crystallization Behavior of Poly(ethylene terephthalate)/Graphene Oxide Nanocomposites. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-10	3.2	10
46	Phase Separation and Elastic Properties of Poly(Trimethylene Terephthalate)-block-poly(Ethylene Oxide) Copolymers. <i>Polymers</i> , 2016 , 8,	4.5	10
45	Electrically and thermally conductive thin elastic polymer foils containing SiC nanofibers. <i>Composites Science and Technology</i> , 2017 , 146, 20-25	8.6	9
44	Laser induced periodic surface structures formation by nanosecond laser irradiation of poly(ethylene terephthalate) reinforced with Expanded Graphite. <i>Applied Surface Science</i> , 2018 , 436, 1193-1199	6.7	9
43	Electrical and rheological characterization of poly(trimethylene terephthalate) hybrid nanocomposites filled with COOH functionalized MWCNT and graphene nanosheets. <i>Polymer Composites</i> , 2018 , 39, 2961-2968	3	9
42	Graphene-Based Nanomaterials and Their Polymer Nanocomposites 2019 , 177-216		9

41	Enhanced Functional Properties of Low-Density Polyethylene Nanocomposites Containing Hybrid Fillers of Multi-Walled Carbon Nanotubes and Nano Carbon Black. <i>Polymers</i> , 2020 , 12,	4.5	8
40	Microstructure, thermal stability, and mechanical properties of modified polycarbonate with polyolefin and silica nanoparticles. <i>Polymers for Advanced Technologies</i> , 2017 , 28, 1794-1803	3.2	7
39	FMR and DSC study of maghemite nanoparticles in PMMA polymer matrix. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 4256-4261	3.9	7
38	Thermal characterization of polymer composites with nanocrystalline maghemite. <i>Polimery</i> , 2009 , 54, 546-551	3.4	7
37	Characterization of polypropylene/poly(2,6-dimethyl-1,4-phenylene oxide) blends with improved thermal stability. <i>Polymer Bulletin</i> , 2018 , 75, 3679-3691	2.4	7
36	Interfacial interactions in PTTBTMO/polyhedral oligomeric silsesquioxane (POSS) nanocomposites and their impact on mechanical, thermal, and dielectric properties. <i>Polymer Bulletin</i> , 2018 , 75, 4999-5014	2.4	6
35	Laser induced periodic surface structures on polymer nanocomposites with carbon nanoadditives. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	6
34	Comparative study on the properties of poly(trimethylene terephthalate) -based nanocomposites containing multi-walled carbon (MWCNT) and tungsten disulfide (INT-WS2) nanotubes. <i>Polymers for Advanced Technologies</i> , 2017 , 28, 645-657	3.2	6
33	Thermoplastic elastomers containing 2D nanofillers: montmorillonite, graphene nanoplatelets and oxidized graphene platelets. <i>Polish Journal of Chemical Technology</i> , 2015 , 17, 74-81	1	6
32	Oxidation of (Ti,W)C ceramic powders. <i>Journal of Thermal Analysis and Calorimetry</i> , 2004 , 77, 75-83	4.1	6
31	POLY(ETHER-BLOCK-SULFONATED ESTER)COPOLYMERS. I. PHASE STRUCTURE AND PHYSICAL PROPERTIES*. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 669-684	1.4	6
30	Mechanical and thermal properties of hybrid nanocomposites prepared by in situ polymerization. <i>Polimery</i> , 2016 , 61, 172-180	3.4	6
29	Effect of thermal aging on the crystalline structure and mechanical performance of fully bio-based, furan-ester, multiblock copolymers. <i>Polimery</i> , 2018 , 63, 594-602	3.4	6
28	Functional Properties of Poly(Trimethylene Terephthalate)-Block-Poly(Caprolactone) Based Nanocomposites Containing Graphene Oxide (GO) and Reduced Graphene Oxide (rGO). <i>Nanomaterials</i> , 2019 , 9,	5.4	6
27	Laterally-resolved mechanical and tribological properties of laser-structured polymer nanocomposites. <i>Polymer</i> , 2019 , 168, 178-184	3.9	5
26	Thermally and electrically conducting polycarbonate/elastomer blends combined with multiwalled carbon nanotubes. <i>Journal of Thermoplastic Composite Materials</i> , 2019 , 089270571986827	1.9	4
25	Poly(ethylene furanoate) modified with dimerized fatty acid diol towards multiblock copolymers: Microstructure [Property relationship. <i>Materials Today Communications</i> , 2019 , 20, 100577	2.5	4
24	Magnetic properties of carbon nanotube poly(ether-ester) nanocomposites. <i>Journal of Applied Physics</i> , 2010 , 108, 054314	2.5	4

23	Synthesis and characterization of new reactive polymer blends based on post-consumer glycol-modified poly(ethylene terephthalate) foils and poly(tetramethylene oxide). <i>Polimery</i> , 2018 , 63, 45-48	3.4	4
22	Comparing Multi-Walled Carbon Nanotubes and Halloysite Nanotubes as Reinforcements in EVA Nanocomposites. <i>Materials</i> , 2020 , 13,	3.5	4
21	Magnetic studies of 0.7(Fe ₂ O ₃)/0.3(ZnO) nanocomposites in nanopowder form and dispersed in polymer matrix. <i>Materials Science-Poland</i> , 2016 , 34, 286-296	0.6	4
20	Synthesis, structure, and physical properties of poly(trimethylene terephthalate)-block-poly(caprolactone) copolymers. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47341 ⁹		4
19	Biobased Thermoplastic Elastomers: Structure-Property Relationship of Poly(hexamethylene 2,5-furanodicarboxylate)-Block-Poly(tetrahydrofuran) Copolymers Prepared by Melt Polycondensation. <i>Polymers</i> , 2021 , 13,	4.5	4
18	The effect of annealing on tensile properties of injection molded biopolyesters based on 2,5-furandicarboxylic acid. <i>Polymer Engineering and Science</i> , 2021 , 61, 1536-1545	2.3	4
17	Laser-Induced Periodic Surface Structuring of Poly(trimethylene terephthalate) Films Containing Tungsten Disulfide Nanotubes. <i>Polymers</i> , 2020 , 12,	4.5	3
16	Effect of addition of expanded graphite (EG) on the synthesis and characteristics of poly(ethylene terephthalate) modified with cyclohexanedimethanol (PETG). <i>Polimery</i> , 2013 , 58, 893-899	3.4	3
15	Improvement of barrier properties of glycol modified poly(ethylene terephthalate) based nanocomposites containing graphene derivatives forms. <i>Polimery</i> , 2017 , 62, 868-874	3.4	3
14	Influence of hybrid system of nanofillers on the functional properties of postconsumer PET-GBased nanocomposites. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 2983-2992	3.2	2
13	Broadband dielectric spectroscopy of nanocomposites based on PVDF and expanded graphite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 64, 012003	0.4	2
12	Synthesis, Structural and Magnetic Resonance Studies of YxEr _{2-x} Cu ₂ O ₅ Compounds. <i>Radiation Effects and Defects in Solids</i> , 2003 , 158, 105-113	0.9	2
11	POLY(ETHER-BLOCK-SULFONATED ESTER) COPOLYMERS. II. MECHANICAL AND DIELECTRIC RELAXATION*. <i>Journal of Macromolecular Science - Physics</i> , 2001 , 40, 685-708	1.4	2
10	The phase structure and mechanical properties of polyamide 6 (PA 6) / poly(butylene terephthalate) (PBT) blends. <i>Polimery</i> , 1999 , 44, 30-37	3.4	2
9	Non-isothermal crystallization of poly(trimethylene terephthalate)/single-walled carbon nanotubes nanocomposites. <i>Polimery</i> , 2012 , 57, 221-227	3.4	2
8	Elektrycznie i termicznie przewodzące nanokompozyty polimerowe na bazie polietylenu o małej gęstości z dodatkiem nanopłatek grafenowych. <i>Przemysł Chemiczny</i> , 2017 , 1, 167-172	1.8	2
7	Graphene Derivatives in Semicrystalline Polymer Composites 2016 , 145-192		2
6	Nanocomposites Based on Thermoplastic Polyester Elastomers 2017 ,		1

5	Magnetic Properties of Poly(trimethylene terephthalate-block-Poly(tetramethylene oxide) Copolymer Nanocomposites Reinforced by Graphene Oxide/Fe ₃ O ₄ Hybrid Nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1900402	1.6	1
4	Thin polymer films based on poly(vinyl alcohol) containing graphene oxide and reduced graphene oxide with functional properties. <i>Polymer Engineering and Science</i> , 2021 , 61, 1685-1694	2.3	1
3	Sulfonated poly(ether-block-ester) ionomers with anions in the polyester hard segments 1999 , 10, 579		1
2	Bio-based aliphatic/aromatic poly(trimethylene furanoate/sebacate) random copolymers: Correlation between mechanical, gas barrier performances and compostability and copolymer composition. <i>Polymer Degradation and Stability</i> , 2022 , 195, 109800	4.7	0
1	Poly(ether-block-sulfonated ester) copolymers. III. Morphology and ionic aggregation in PESE. <i>Journal of Macromolecular Science - Physics</i> , 2002 , 41, 507-528	1.4	