

# Dimitrios N Bikiaris

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1657135/dimitrios-n-bikiaris-publications-by-citations.pdf>  
**Version:** 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

475 papers	19,081 citations	72 h-index	109 g-index
492 ext. papers	21,851 ext. citations	4.6 avg, IF	7.38 L-index

#	Paper	IF	Citations
475	Can nanoparticles really enhance thermal stability of polymers? Part I: An overview on thermal decomposition of addition polymers. <i>Thermochimica Acta</i> , <b>2011</b> , 523, 1-24	2.9	320
474	Recent modifications of chitosan for adsorption applications: a critical and systematic review. <i>Marine Drugs</i> , <b>2015</b> , 13, 312-37	6	292
473	Crystallization and melting behavior of three biodegradable poly(alkylene succinates). A comparative study. <i>Polymer</i> , <b>2005</b> , 46, 12081-12092	3.9	286
472	Production of bio-based 2,5-furan dicarboxylate polyesters: Recent progress and critical aspects in their synthesis and thermal properties. <i>European Polymer Journal</i> , <b>2016</b> , 83, 202-229	5.2	269
471	Crystallization kinetics and nucleation activity of filler in polypropylene/surface-treated SiO <sub>2</sub> nanocomposites. <i>Thermochimica Acta</i> , <b>2005</b> , 427, 117-128	2.9	264
470	Chitosan nanoparticles loaded with dorzolamide and pramipexole. <i>Carbohydrate Polymers</i> , <b>2008</b> , 73, 44-54	10.3	229
469	Synthesis and adsorption application of succinyl-grafted chitosan for the simultaneous removal of zinc and cationic dye from binary hazardous mixtures. <i>Chemical Engineering Journal</i> , <b>2015</b> , 259, 438-448	14.7	227
468	Compatibilisation effect of PP-g-MA copolymer on iPP/SiO <sub>2</sub> nanocomposites prepared by melt mixing. <i>European Polymer Journal</i> , <b>2005</b> , 41, 1965-1978	5.2	207
467	Synthesis of poly(ethylene furandicarboxylate) polyester using monomers derived from renewable resources: thermal behavior comparison with PET and PEN. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 7946-58	3.6	198
466	Dynamic mechanical and morphological studies of isotactic polypropylene/fumed silica nanocomposites with enhanced gas barrier properties. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 2935-2944	8.6	197
465	Microstructure and Properties of Polypropylene/Carbon Nanotube Nanocomposites. <i>Materials</i> , <b>2010</b> , 3, 2884-2946	3.5	195
464	Thermal degradation mechanism of poly(ethylene succinate) and poly(butylene succinate): Comparative study. <i>Thermochimica Acta</i> , <b>2005</b> , 435, 142-150	2.9	181
463	Can nanoparticles really enhance thermal stability of polymers? Part II: An overview on thermal decomposition of polycondensation polymers. <i>Thermochimica Acta</i> , <b>2011</b> , 523, 25-45	2.9	179
462	Effect of acid treated multi-walled carbon nanotubes on the mechanical, permeability, thermal properties and thermo-oxidative stability of isotactic polypropylene. <i>Polymer Degradation and Stability</i> , <b>2008</b> , 93, 952-967	4.7	179
461	Synthesis and comparative biodegradability studies of three poly(alkylene succinate)s. <i>Polymer Degradation and Stability</i> , <b>2006</b> , 91, 31-43	4.7	179
460	Synthesis, cocrystallization, and enzymatic degradation of novel poly(butylene-co-propylene succinate) copolymers. <i>Biomacromolecules</i> , <b>2007</b> , 8, 2437-49	6.9	175
459	LDPE/starch blends compatibilized with PE-g-MA copolymers. <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 70, 1503-1521	2.9	174

458	Chitosan derivatives as biosorbents for basic dyes. <i>Langmuir</i> , <b>2007</b> , 23, 7634-43	4	168
457	PLA nanocomposites: Effect of filler type on non-isothermal crystallization. <i>Thermochimica Acta</i> , <b>2010</b> , 511, 129-139	2.9	166
456	Comparative study of the effect of different nanoparticles on the mechanical properties and thermal degradation mechanism of in situ prepared poly( $\epsilon$ -caprolactone) nanocomposites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 2165-2174	8.6	166
455	Preparation by melt mixing and characterization of isotactic polypropylene/SiO <sub>2</sub> nanocomposites containing untreated and surface-treated nanoparticles. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 2684-2696	2.9	163
454	Investigation of the release mechanism of a sparingly water-soluble drug from solid dispersions in hydrophilic carriers based on physical state of drug, particle size distribution and drug-polymer interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2007</b> , 66, 334-47	5.7	160
453	Synthesis, characterization, and biodegradability of fatty-acid esters of amylose and starch. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 74, 1440-1451	2.9	142
452	Solid dispersions, part I: recent evolutions and future opportunities in manufacturing methods for dissolution rate enhancement of poorly water-soluble drugs. <i>Expert Opinion on Drug Delivery</i> , <b>2011</b> , 8, 1501-19	8	140
451	Optimization of chitosan and $\beta$ -cyclodextrin molecularly imprinted polymer synthesis for dye adsorption. <i>Carbohydrate Polymers</i> , <b>2013</b> , 91, 198-208	10.3	137
450	Mechanical properties and viscoelastic behavior of basalt fiber-reinforced polypropylene. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 74, 523-531	2.9	137
449	Poly(itaconic acid)-grafted chitosan adsorbents with different cross-linking for Pb(II) and Cd(II) uptake. <i>Langmuir</i> , <b>2014</b> , 30, 120-31	4	135
448	Synthesis of the bio-based polyester poly(propylene 2,5-furan dicarboxylate). Comparison of thermal behavior and solid state structure with its terephthalate and naphthalate homologues. <i>Polymer</i> , <b>2015</b> , 62, 28-38	3.9	134
447	Evaluation of polyesters from renewable resources as alternatives to the current fossil-based polymers. Phase transitions of poly(butylene 2,5-furan-dicarboxylate). <i>Polymer</i> , <b>2014</b> , 55, 3846-3858	3.9	133
446	Pharmaceutical nanocrystals: production by wet milling and applications. <i>Drug Discovery Today</i> , <b>2018</b> , 23, 534-547	8.8	131
445	Insight on the formation of chitosan nanoparticles through ionotropic gelation with tripolyphosphate. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 2856-62	5.6	131
444	Properties of fatty-acid esters of starch and their blends with LDPE. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 65, 705-721	2.9	130
443	New approaches on the removal of pharmaceuticals from wastewaters with adsorbent materials. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 209, 87-93	6	129
442	Thermal and dynamic mechanical behavior of bionanocomposites: Fumed silica nanoparticles dispersed in poly(vinyl pyrrolidone), chitosan, and poly(vinyl alcohol). <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 110, 1739-1749	2.9	129
441	Crystallization Kinetics of Biodegradable Poly(butylene succinate) under Isothermal and Non-Isothermal Conditions. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 1250-1264	2.6	125

- 440 Novel self-assembled core-shell nanoparticles based on crystalline amorphous moieties of aliphatic copolyesters for efficient controlled drug release. *Journal of Controlled Release*, **2009**, 138, 177-84 11.7 118
- 439 Thermal degradation mechanism of HDPE nanocomposites containing fumed silica nanoparticles. *Thermochimica Acta*, **2009**, 485, 65-71 2.9 113
- 438 Properties of octanoated starch and its blends with polyethylene. *Carbohydrate Polymers*, **1997**, 34, 101-103 10.2 109
- 437 Surface Modified Multifunctional and Stimuli Responsive Nanoparticles for Drug Targeting: Current Status and Uses. *International Journal of Molecular Sciences*, **2016**, 17, 6.3 108
- 436 Physicochemical studies on solid dispersions of poorly water-soluble drugs. *Thermochimica Acta*, **2005**, 439, 58-67 2.9 107
- 435 Removal of beta-blockers from aqueous media by adsorption onto graphene oxide. *Science of the Total Environment*, **2015**, 537, 411-20 10.2 106
- 434 Application of PVP/HPMC miscible blends with enhanced mucoadhesive properties for adjusting drug release in predictable pulsatile chronotherapeutics. *European Journal of Pharmaceutics and Biopharmaceutics*, **2006**, 64, 115-26 5.7 106
- 433 Chain extension of polyesters PET and PBT with two new diimidodiepoxides. II. *Journal of Polymer Science Part A*, **1996**, 34, 1337-1342 2.5 101
- 432 Furan-based polyesters from renewable resources: Crystallization and thermal degradation behavior of poly(hexamethylene 2,5-furan-dicarboxylate). *European Polymer Journal*, **2015**, 67, 383-396 5.2 97
- 431 Removal of dorzolamide from biomedical wastewaters with adsorption onto graphite oxide/poly(acrylic acid) grafted chitosan nanocomposite. *Bioresource Technology*, **2014**, 152, 399-406 11 96
- 430 Combining SEM, TEM, and micro-Raman techniques to differentiate between the amorphous molecular level dispersions and nanodispersions of a poorly water-soluble drug within a polymer matrix. *International Journal of Pharmaceutics*, **2007**, 340, 76-83 6.5 96
- 429 Synthesis, characterization and biodegradability of poly(ethylene succinate)/poly(ε-caprolactone) block copolymers. *Polymer*, **2002**, 43, 5405-5415 3.9 96
- 428 Effect of different nanoparticles on HDPE UV stability. *Polymer Degradation and Stability*, **2011**, 96, 151-163 11.7 94
- 427 Graphene composites as dye adsorbents: Review. *Chemical Engineering Research and Design*, **2018**, 129, 75-88 5.5 94
- 426 Porous dressings of modified chitosan with poly(2-hydroxyethyl acrylate) for topical wound delivery of levofloxacin. *Carbohydrate Polymers*, **2016**, 143, 90-9 10.3 92
- 425 Chitin Adsorbents for Toxic Metals: A Review. *International Journal of Molecular Sciences*, **2017**, 18, 6.3 90
- 424 A New Approach to Prepare Poly(ethylene terephthalate)/Silica Nanocomposites with Increased Molecular Weight and Fully Adjustable Branching or Crosslinking by SSP. *Macromolecular Rapid Communications*, **2006**, 27, 1199-1205 4.8 89
- 423 Chitosan adsorbents for dye removal: a review. *Polymer International*, **2017**, 66, 1800-1811 3.3 88

422	Environmental friendly technology for the removal of pharmaceutical contaminants from wastewaters using modified chitosan adsorbents. <i>Chemical Engineering Journal</i> , <b>2013</b> , 222, 248-258	14.7	87
421	Characterization and thermal degradation mechanism of isotactic polypropylene/carbon black nanocomposites. <i>Thermochimica Acta</i> , <b>2007</b> , 465, 6-17	2.9	87
420	Crystallization and Polymorphism of Poly(ethylene furanoate). <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 5505-5512	3.5	85
419	Dissolution enhancement of flavonoids by solid dispersion in PVP and PEG matrixes: A comparative study. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 102, 460-471	2.9	84
418	Effect of molecular weight on thermal degradation mechanism of the biodegradable polyester poly(ethylene succinate). <i>Thermochimica Acta</i> , <b>2006</b> , 440, 166-175	2.9	84
417	Correlation between chemical and solid-state structures and enzymatic hydrolysis in novel biodegradable polyesters. The case of poly(propylene alkanedicarboxylate)s. <i>Macromolecular Bioscience</i> , <b>2008</b> , 8, 728-40	5.5	82
416	Comparative study of the effect of different nanoparticles on the mechanical properties, permeability, and thermal degradation mechanism of HDPE. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 1606-1618	2.9	81
415	Use of silane agents and poly(propylene-g-maleic anhydride) copolymer as adhesion promoters in glass fiber/polypropylene composites. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 701-709	2.9	79
414	Nanocomposites of aliphatic polyesters: An overview of the effect of different nanofillers on enzymatic hydrolysis and biodegradation of polyesters. <i>Polymer Degradation and Stability</i> , <b>2013</b> , 98, 1908-1928	4.7	78
413	An extensive non-destructive and micro-spectroscopic study of two post-Byzantine overpainted icons of the 16th century. <i>Journal of Raman Spectroscopy</i> , <b>2002</b> , 33, 807-814	2.3	78
412	Alkyd resins derived from glycolized waste poly(ethylene terephthalate). <i>European Polymer Journal</i> , <b>2005</b> , 41, 201-210	5.2	78
411	Polymer/Metal Organic Framework (MOF) Nanocomposites for Biomedical Applications. <i>Molecules</i> , <b>2020</b> , 25,	4.8	77
410	Reactive modification of polyethylene terephthalate with polyepoxides. <i>Polymer Engineering and Science</i> , <b>2001</b> , 41, 643-655	2.3	76
409	Synthesis, characterization and thermal analysis of urea-formaldehyde/nanoSiO <sub>2</sub> resins. <i>Thermochimica Acta</i> , <b>2012</b> , 527, 33-39	2.9	75
408	Green composites prepared from aliphatic polyesters and bast fibers. <i>Industrial Crops and Products</i> , <b>2015</b> , 68, 60-79	5.9	73
407	A facile method to synthesize high-molecular-weight biobased polyesters from 2,5-furandicarboxylic acid and long-chain diols. <i>Journal of Polymer Science Part A</i> , <b>2015</b> , 53, 2617-2632	2.5	73
406	Thermal degradation kinetics and decomposition mechanism of polyesters based on 2,5-furandicarboxylic acid and low molecular weight aliphatic diols. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 112, 369-378	6	73
405	Study of various catalysts in the synthesis of poly(propylene terephthalate) and mathematical modeling of the esterification reaction. <i>Polymer</i> , <b>2003</b> , 44, 931-942	3.9	73

404	Biocompatible Zr-based nanoscale MOFs coated with modified poly( $\epsilon$ -caprolactone) as anticancer drug carriers. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 509, 208-218	6.5	72
403	Co-Amorphous Solid Dispersions for Solubility and Absorption Improvement of Drugs: Composition, Preparation, Characterization and Formulations for Oral Delivery. <i>Pharmaceutics</i> , <b>2018</b> , 10,	6.4	72
402	Quantitative analysis of paracetamol polymorphs in powder mixtures by FT-Raman spectroscopy and PLS regression. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2007</b> , 43, 407-12	3.5	72
401	Panselinos Byzantine wall paintings in the Protaton Church, Mount Athos, Greece: a technical examination. <i>Journal of Cultural Heritage</i> , <b>2000</b> , 1, 91-110	2.9	70
400	Chitosan-g-PEG nanoparticles ionically crosslinked with poly(glutamic acid) and tripolyphosphate as protein delivery systems. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 430, 318-27	6.5	69
399	Characterization of the distribution, polymorphism, and stability of nimodipine in its solid dispersions in polyethylene glycol by micro-Raman spectroscopy and powder X-ray diffraction. <i>AAPS Journal</i> , <b>2007</b> , 9, E361-70	3.7	68
398	Recent Advances in Nanocomposite Materials of Graphene Derivatives with Polysaccharides. <i>Materials</i> , <b>2015</b> , 8, 652-683	3.5	67
397	In situ prepared PET nanocomposites: Effect of organically modified montmorillonite and fumed silica nanoparticles on PET physical properties and thermal degradation kinetics. <i>Thermochimica Acta</i> , <b>2010</b> , 500, 21-29	2.9	67
396	Chemical Recycling of PET by Glycolysis: Polymerization and Characterization of the Dimethacrylated Glycolysate. <i>Macromolecular Materials and Engineering</i> , <b>2006</b> , 291, 1338-1347	3.9	67
395	Novel Poly(propylene terephthalate-co-succinate) Random Copolymers: Synthesis, Solid Structure, and Enzymatic Degradation Study. <i>Macromolecules</i> , <b>2008</b> , 41, 1675-1684	5.5	66
394	HDPE/Cu-nanofiber nanocomposites with enhanced antibacterial and oxygen barrier properties appropriate for food packaging applications. <i>Materials Letters</i> , <b>2013</b> , 93, 1-4	3.3	65
393	Low-swelling chitosan derivatives as biosorbents for basic dyes. <i>Langmuir</i> , <b>2008</b> , 24, 4791-9	4	65
392	Preparation of molecularly imprinted solid-phase microextraction fiber for the selective removal and extraction of the antiviral drug abacavir in environmental and biological matrices. <i>Analytica Chimica Acta</i> , <b>2016</b> , 913, 63-75	6.6	64
391	Chitosan derivatives as effective nanocarriers for ocular release of timolol drug. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 495, 249-264	6.5	62
390	Controlled release of 5-fluorouracil from microporous zeolites. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 197-205	6	62
389	Glycolytic depolymerization of PET waste in a microwave reactor. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 118, 3066-3073	2.9	62
388	Non-Isothermal Crystallisation Kinetics of In Situ Prepared Poly( $\epsilon$ -caprolactone)/Surface-Treated SiO <sub>2</sub> Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 364-376	2.6	62
387	Blends of polymers with similar glass transition temperatures: A DMTA and DSC study. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 93, 726-735	2.9	62



386	Synthesis and characterisation of branched and partially crosslinked poly(ethylene terephthalate). <i>Polymer International</i> , <b>2003</b> , 52, 1230-1239	3.3	62
385	ENucleated Polypropylene: Processing, Properties and Nanocomposites. <i>Polymer Reviews</i> , <b>2015</b> , 55, 596-629	14	61
384	Evaluation of the formed interface in biodegradable poly(l-lactic acid)/graphene oxide nanocomposites and the effect of nanofillers on mechanical and thermal properties. <i>Thermochimica Acta</i> , <b>2014</b> , 597, 48-57	2.9	61
383	Synthesis of poly(alkylene succinate) biodegradable polyesters, Part II: Mathematical modelling of the polycondensation reaction. <i>Polymer</i> , <b>2008</b> , 49, 3677-3685	3.9	60
382	Effect of physical state and particle size distribution on dissolution enhancement of nimodipine/PEG solid dispersions prepared by melt mixing and solvent evaporation. <i>AAPS Journal</i> , <b>2006</b> , 8, E623-31	3.7	59
381	Synthesis of poly(alkylene succinate) biodegradable polyesters I. Mathematical modelling of the esterification reaction. <i>Polymer</i> , <b>2006</b> , 47, 4851-4860	3.9	59
380	New poly(pentylene furanoate) and poly(heptylene furanoate) sustainable polyesters from diols with odd methylene groups. <i>Materials Letters</i> , <b>2016</b> , 178, 64-67	3.3	58
379	Felodipine nanodispersions as active core for predictable pulsatile chronotherapeutics using PVP/HPMC blends as coating layer. <i>International Journal of Pharmaceutics</i> , <b>2006</b> , 313, 189-97	6.5	58
378	Identification of rheological and structural characteristics of foamable poly(ethylene terephthalate) by reactive extrusion. <i>Polymer International</i> , <b>2004</b> , 53, 1161-1168	3.3	58
377	N-(2-Carboxybenzyl) grafted chitosan as adsorptive agent for simultaneous removal of positively and negatively charged toxic metal ions. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 244-245, 29-38	12.8	57
376	Aging studies of light cured dimethacrylate-based dental resins and a resin composite in water or ethanol/water. <i>Dental Materials</i> , <b>2007</b> , 23, 1142-9	5.7	57
375	Nanocomposites of isotactic polypropylene with carbon nanoparticles exhibiting enhanced stiffness, thermal stability and gas barrier properties. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 933-943	8.6	57
374	Mechanical properties and biodegradability of LDPE blends with fatty-acid esters of amylose and starch. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 71, 1089-1100	2.9	57
373	Fast Crystallization and Melting Behavior of a Long-Spaced Aliphatic Furandicarboxylate Biobased Polyester, Poly(dodecylene 2,5-furanoate). <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 5315-5326	3.9	57
372	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. <i>Polymer</i> , <b>2014</b> , 55, 6725-6734	3.9	55
371	Solid dispersions, part II: new strategies in manufacturing methods for dissolution rate enhancement of poorly water-soluble drugs. <i>Expert Opinion on Drug Delivery</i> , <b>2011</b> , 8, 1663-80	8	55
370	Evaluating the effects of crystallinity in new biocompatible polyester nanocarriers on drug release behavior. <i>International Journal of Nanomedicine</i> , <b>2011</b> , 6, 3021-32	7.3	55
369	Effect of catalyst type on molecular weight increase and coloration of poly(ethylene furanoate) biobased polyester during melt polycondensation. <i>Polymer Chemistry</i> , <b>2017</b> , 8, 6895-6908	4.9	54

368	Nanoencapsulation of a water soluble drug in biocompatible polyesters. Effect of polyesters melting point and glass transition temperature on drug release behavior. <i>European Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 41, 636-43	5.1	54
367	Miscibility study of carrageenan blends and evaluation of their effectiveness as sustained release carriers. <i>Carbohydrate Polymers</i> , <b>2010</b> , 79, 1157-1167	10.3	54
366	In situ compatibilization of polypropylene/polyethylene blends: a thermomechanical and spectroscopic study. <i>Polymer</i> , <b>1998</b> , 39, 6807-6817	3.9	54
365	Novel electrospun nanofibrous matrices prepared from poly(lactic acid)/poly(butylene adipate) blends for controlled release formulations of an anti-rheumatoid agent. <i>European Journal of Pharmaceutical Sciences</i> , <b>2016</b> , 88, 12-25	5.1	54
364	Nanomaterials and Chemical Modifications for Enhanced Key Wood Properties: A Review. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	53
363	Tuning the Properties of Furandicarboxylic Acid-Based Polyesters with Copolymerization: A Review. <i>Polymers</i> , <b>2020</b> , 12,	4.5	53
362	Optimizing the ability of PVP/PEG mixtures to be used as appropriate carriers for the preparation of drug solid dispersions by melt mixing technique using artificial neural networks: I. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2012</b> , 82, 175-86	5.7	53
361	Hydrolytic Depolymerization of PET in a Microwave Reactor. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 575-584	3.9	53
360	Thermomechanical analysis of chain-extended PET and PBT. <i>Journal of Applied Polymer Science</i> , <b>1996</b> , 60, 55-61	2.9	53
359	Thermal and structural response of in situ prepared biobased poly(ethylene 2,5-furan dicarboxylate) nanocomposites. <i>Polymer</i> , <b>2016</b> , 103, 288-298	3.9	53
358	Poly(ethylene furanoate-co-ethylene terephthalate) biobased copolymers: Synthesis, thermal properties and cocrystallization behavior. <i>European Polymer Journal</i> , <b>2017</b> , 89, 349-366	5.2	52
357	Preparation and characterization of LDPE/starch blends containing ethylene/vinyl acetate copolymer as compatibilizer. <i>Polymer Engineering and Science</i> , <b>1998</b> , 38, 954-964	2.3	52
356	Effect of molecular weight on the cold-crystallization of biodegradable poly(ethylene succinate). <i>Thermochimica Acta</i> , <b>2007</b> , 457, 41-54	2.9	51
355	Compatibility of low-density polyethylene/poly(ethylene-co-vinyl acetate) binary blends prepared by melt mixing. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 841-852	2.9	51
354	Poly(lactic Acid): A Versatile Biobased Polymer for the Future with Multifunctional Properties-From Monomer Synthesis, Polymerization Techniques and Molecular Weight Increase to PLA Applications. <i>Polymers</i> , <b>2021</b> , 13,	4.5	51
353	Sustainable, eco-friendly polyesters synthesized from renewable resources: preparation and thermal characteristics of poly(dimethyl-propylene furanoate). <i>Polymer Chemistry</i> , <b>2015</b> , 6, 8284-8296	4.9	50
352	Effectively designed molecularly imprinted polymers for selective isolation of the antidiabetic drug metformin and its transformation product guanylurea from aqueous media. <i>Analytica Chimica Acta</i> , <b>2015</b> , 866, 27-40	6.6	50
351	Aminolytic depolymerization of poly(ethylene terephthalate) waste in a microwave reactor. <i>Polymer International</i> , <b>2011</b> , 60, 500-506	3.3	50



350	Effect of evolved interactions in poly(butylene succinate)/fumed silica biodegradable in situ prepared nanocomposites on molecular weight, material properties, and biodegradability. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 2010-2024	2.9	50
349	Rigid amorphous fraction and segmental dynamics in nanocomposites based on poly(l-lactic acid) and nano-inclusions of 1BD geometry studied by thermal and dielectric techniques. <i>European Polymer Journal</i> , <b>2016</b> , 82, 16-34	5.2	50
348	Interfacial interactions, crystallization and molecular mobility in nanocomposites of Poly(lactic acid) filled with new hybrid inclusions based on graphene oxide and silica nanoparticles. <i>Polymer</i> , <b>2019</b> , 166, 1-12	3.9	49
347	Synthesis, properties and thermal behavior of poly(decylene-2,5-furanoate): a biobased polyester from 2,5-furan dicarboxylic acid. <i>RSC Advances</i> , <b>2015</b> , 5, 74592-74604	3.7	48
346	Effect of conditions of preparation on the size and encapsulation properties of PLGA-mPEG nanoparticles of cisplatin. <i>Drug Delivery</i> , <b>2007</b> , 14, 371-80	7	48
345	Thermal analysis study of flavonoid solid dispersions having enhanced solubility. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2006</b> , 83, 283-290	4.1	48
344	Removal of antibiotics in aqueous media by using new synthesized bio-based poly(ethylene terephthalate)-TiO photocatalysts. <i>Chemosphere</i> , <b>2019</b> , 234, 746-755	8.4	47
343	Glass transition and segmental dynamics in poly(l-lactic acid)/graphene oxide nanocomposites. <i>Thermochimica Acta</i> , <b>2015</b> , 617, 44-53	2.9	47
342	Chain extension of polyesters PET and PBT with N,N'-bis (glycidyl ester) pyromellitimides. I. <i>Journal of Polymer Science Part A</i> , <b>1995</b> , 33, 1705-1714	2.5	47
341	Solid-state polycondensation of poly(ethylene terephthalate) recycled from postconsumer soft-drink bottles. II. <i>Journal of Applied Polymer Science</i> , <b>1995</b> , 56, 405-410	2.9	46
340	Comprehensive investigation of a wide range of pharmaceuticals and personal care products in urban and hospital wastewaters in Greece. <i>Science of the Total Environment</i> , <b>2019</b> , 694, 133565	10.2	45
339	Thermal degradation of biobased polyesters: Kinetics and decomposition mechanism of polyesters from 2,5-furandicarboxylic acid and long-chain aliphatic diols. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2016</b> , 117, 162-175	6	44
338	Adjusting drug release by using miscible polymer blends as effective drug carries. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2006</b> , 84, 125-133	4.1	44
337	Biobased poly(ethylene furanoate-co-ethylene succinate) copolyesters: solid state structure, melting point depression and biodegradability. <i>RSC Advances</i> , <b>2016</b> , 6, 84003-84015	3.7	44
336	Effect of graphene nanoplatelets diameter on non-isothermal crystallization kinetics and melting behavior of high density polyethylene nanocomposites. <i>Thermochimica Acta</i> , <b>2016</b> , 643, 94-103	2.9	44
335	On the bio-based furanic polyesters: Synthesis and thermal behavior study of poly(octylene furanoate) using fast and temperature modulated scanning calorimetry. <i>European Polymer Journal</i> , <b>2015</b> , 68, 115-127	5.2	43
334	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. <i>Composites Science and Technology</i> , <b>2018</b> , 156, 95-102	8.6	43
333	Crystallization and melting of propylene-ethylene random copolymers. Homogeneous nucleation and nucleating agents. <i>European Polymer Journal</i> , <b>2013</b> , 49, 1577-1590	5.2	43

332	Photocatalytical removal of fluorouracil using TiO-P25 and N/S doped TiO catalysts: A kinetic and mechanistic study. <i>Science of the Total Environment</i> , <b>2017</b> , 578, 257-267	10.2	43
331	Miscibility and enzymatic degradation studies of poly( $\epsilon$ -caprolactone)/poly(propylene succinate) blends. <i>European Polymer Journal</i> , <b>2007</b> , 43, 2491-2503	5.2	43
330	Biodegradable poly(alkylene succinate) blends: Thermal behavior and miscibility study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 584-597	2.6	43
329	Processing and characterization of LDPE/starch products. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 79, 2548-2557	2.9	43
328	Optimization of formulation and process parameters for the production of carvedilol nanosuspension by wet media milling. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 540, 150-161	6.5	42
327	Nonisothermal melt-crystallization kinetics for in situ prepared poly(ethylene terephthalate)/monmorilonite (PET/OMMT). <i>Thermochimica Acta</i> , <b>2011</b> , 521, 161-169	2.9	42
326	Chitosan and its Derivatives for Ocular Delivery Formulations: Recent Advances and Developments. <i>Polymers</i> , <b>2020</b> , 12,	4.5	42
325	Effect of catalyst type on recyclability and decomposition mechanism of poly(ethylene furanoate) biobased polyester. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2017</b> , 126, 357-370	6	41
324	Effect of crystalline structure of polypropylene random copolymers on mechanical properties and thermal degradation kinetics. <i>Thermochimica Acta</i> , <b>2012</b> , 543, 288-294	2.9	41
323	Reinforcement of a PMMA resin for fixed interim prostheses with nanodiamonds. <i>Dental Materials Journal</i> , <b>2011</b> , 30, 222-31	2.5	41
322	Novel biodegradable polyesters. Synthesis and application as drug carriers for the preparation of raloxifene HCl loaded nanoparticles. <i>Molecules</i> , <b>2009</b> , 14, 2410-30	4.8	41
321	Thermal behavior and tensile properties of poly(ethylene terephthalate-co-ethylene isophthalate). <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 78, 200-207	2.9	41
320	Synthesis of cross-linked N-(2-carboxybenzyl)chitosan pH sensitive polyelectrolyte and its use for drug controlled delivery. <i>Carbohydrate Polymers</i> , <b>2010</b> , 82, 181-188	10.3	40
319	Influence of hydrophilic polymers on the complexation of carbamazepine with hydroxypropyl- $\beta$ -cyclodextrin. <i>European Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 78, 273-85	5.1	39
318	Modified chitosan coated mesoporous strontium hydroxyapatite nanorods as drug carriers. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5991-6000	7.3	39
317	Low-cost hemp biomaterials for nickel ions removal from aqueous solutions. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 209, 209-218	6	39
316	Synthesis and characterization of novel poly(ethylene furanoate-co-adipate) random copolyesters with enhanced biodegradability. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 156, 32-42	4.7	38
315	Synthesis and Characterization of Bio-Based Polyesters: Poly(2-methyl-1,3-propylene-2,5-furanoate), Poly(isosorbide-2,5-furanoate), Poly(1,4-cyclohexanedimethylene-2,5-furanoate). <i>Materials</i> , <b>2017</b> , 10,	3.5	38

314	Biodegradable poly(ethylene succinate) nanocomposites. Effect of filler type on thermal behaviour and crystallization kinetics. <i>Polymer</i> , <b>2013</b> , 54, 4604-4616	3.9	38
313	Facile synthesis of polyester-PEG triblock copolymers and preparation of amphiphilic nanoparticles as drug carriers. <i>Journal of Controlled Release</i> , <b>2010</b> , 148, 388-95	11.7	38
312	Enhanced propylene/ethylene random copolymer filled with multi-walled carbon nanotubes: Mechanical, thermal and rheological properties. <i>Polymer</i> , <b>2014</b> , 55, 3758-3769	3.9	37
311	A post-Byzantine icon of St Nicholas painted on a leather support. Microanalysis and characterisation of technique. <i>Journal of Cultural Heritage</i> , <b>2004</b> , 5, 349-360	2.9	37
310	Effect of clay structure and type of organomodifier on the thermal properties of poly(ethylene terephthalate) based nanocomposites. <i>Thermochimica Acta</i> , <b>2014</b> , 576, 84-96	2.9	36
309	Effect of different nanoparticles on thermal decomposition of poly(propylene sebacate)/nanocomposites: Evaluation of mechanisms using TGA and TGA-FTIR/GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2012</b> , 96, 92-99	6	36
308	Development of PVP/PEG mixtures as appropriate carriers for the preparation of drug solid dispersions by melt mixing technique and optimization of dissolution using artificial neural networks. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2013</b> , 85, 1219-31	5.7	36
307	Synthesis and Properties of Novel Biodegradable/Biocompatible Poly[propylene-co-(ethylene succinate)] Random Copolyesters. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 1408-1421	2.6	36
306	Thermal decomposition of poly(propylene sebacate) and poly(propylene azelate) biodegradable polyesters: Evaluation of mechanisms using TGA, FTIR and GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2011</b> , 92, 123-130	6	36
305	Non-isothermal crystallization kinetic of poly(ethylene terephthalate)/fumed silica (PET/SiO <sub>2</sub> ) prepared by in situ polymerization. <i>Thermochimica Acta</i> , <b>2010</b> , 510, 103-112	2.9	36
304	Effect of silica nanoparticles on solid state polymerization of poly(ethylene terephthalate). <i>European Polymer Journal</i> , <b>2008</b> , 44, 3096-3107	5.2	36
303	Two Different Approaches for Oral Administration of Voriconazole Loaded Formulations: Electrospun Fibers versus $\beta$ -Cyclodextrin Complexes. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17, 282	6.3	36
302	Polyglycerol Hyperbranched Polyesters: Synthesis, Properties and Pharmaceutical and Biomedical Applications. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	36
301	Synthesis of folate- pegylated polyester nanoparticles encapsulating ixabepilone for targeting folate receptor overexpressing breast cancer cells. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 275	4.5	35
300	Structural Investigation of Poly(ethylene furanoate) Polymorphs. <i>Polymers</i> , <b>2018</b> , 10,	4.5	35
299	Solid-State Polymerization of Poly(Ethylene Furanoate) Biobased Polyester, II: An Efficient and Facile Method to Synthesize High Molecular Weight Polyester Appropriate for Food Packaging Applications. <i>Polymers</i> , <b>2018</b> , 10,	4.5	35
298	Effect of nanofiller's type on the thermal properties and enzymatic degradation of poly( $\epsilon$ -caprolactone). <i>Polymer Degradation and Stability</i> , <b>2014</b> , 108, 257-268	4.7	35
297	Covalently bonded poly(ethylene succinate)/SiO <sub>2</sub> nanocomposites prepared by in situ polymerisation. <i>Polymer</i> , <b>2013</b> , 54, 1018-1032	3.9	35

296	Synthesis and characterization of modified carrageenan microparticles for the removal of pharmaceuticals from aqueous solutions. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 127, 256-65	6	35
295	Improvement in chemical and physical stability of fluvastatin drug through hydrogen bonding interactions with different polymer matrices. <i>Current Drug Delivery</i> , <b>2009</b> , 6, 101-12	3.2	35
294	Development and study of fully biodegradable composite materials based on poly(butylene succinate) and hemp fibers or hemp shives. <i>Polymer Composites</i> , <b>2016</b> , 37, 407-421	3	34
293	Novel core-shell magnetic nanoparticles for Taxol encapsulation in biodegradable and biocompatible block copolymers: preparation, characterization and release properties. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 448, 221-30	6.5	34
292	Miscibility study of chitosan/2-hydroxyethyl starch blends and evaluation of their effectiveness as drug sustained release hydrogels. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 1286-1294	10.3	34
291	Novel biodegradable polyester poly(propylene succinate): synthesis and application in the preparation of solid dispersions and nanoparticles of a water-soluble drug. <i>AAPS PharmSciTech</i> , <b>2009</b> , 10, 138-46	3.9	34
290	Molecular Dynamics of Poly(ethylene-2,5-furanoate) (PEF) as a Function of the Degree of Crystallinity by Dielectric Spectroscopy and Calorimetry. <i>Macromolecular Chemistry and Physics</i> , <b>2016</b> , 217, 2056-2062	2.6	34
289	Super-hydrophilic and high strength polymeric foam dressings of modified chitosan blends for topical wound delivery of chloramphenicol. <i>Carbohydrate Polymers</i> , <b>2019</b> , 208, 1-13	10.3	34
288	Decomposition mechanism of polyesters based on 2,5-furandicarboxylic acid and aliphatic diols with medium and long chain methylene groups. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 132, 127-136	4.7	33
287	Microscopic observation and micromechanical modeling to predict the enhanced mechanical properties of multi-walled carbon nanotubes reinforced crosslinked high density polyethylene. <i>Carbon</i> , <b>2014</b> , 67, 475-487	10.4	33
286	Crystallization Kinetics and Melting Behaviour of the Novel Biodegradable Polyesters Poly(propylene azelate) and Poly(propylene sebacate). <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 90-107	2.6	33
285	Effects of moisture and residual solvent on the phase stability of orthorhombic paracetamol. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 1440-9	4.5	33
284	Effect of maleic anhydride on the mechanical and thermal properties of hemp/high-density polyethylene green composites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 121, 93-105	4.1	32
283	Factors controlling the enhanced mechanical and thermal properties of nanodiamond-reinforced cross-linked high density polyethylene. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 11341-52	3.4	32
282	Thiolated Chitosan Masked Polymeric Microspheres with Incorporated Mesocellular Silica Foam (MCF) for Intranasal Delivery of Paliperidone. <i>Polymers</i> , <b>2017</b> , 9,	4.5	32
281	Dissolution rate and stability study of flavanone aglycones, naringenin and hesperetin, by drug delivery systems based on polyvinylpyrrolidone (PVP) nanodispersions. <i>Drug Development and Industrial Pharmacy</i> , <b>2010</b> , 36, 292-301	3.6	32
280	Tailoring the release rates of fluconazole using solid dispersions in polymer blends. <i>Drug Development and Industrial Pharmacy</i> , <b>2008</b> , 34, 336-46	3.6	32
279	Effect of the Sb <sub>2</sub> O <sub>3</sub> catalyst on the solid-state postpolycondensation of poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , <b>1995</b> , 55, 787-791	2.9	32

278	Formulation and In-Vitro Characterization of Chitosan-Nanoparticles Loaded with the Iron Chelator Deferoxamine Mesylate (DFO). <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	31
277	Tensile strength and disintegration of tableted silicified microcrystalline cellulose: influences of interparticle bonding. <i>Journal of Pharmaceutical Sciences</i> , <b>2003</b> , 92, 1489-501	3.9	31
276	Effect of humic acid on pharmaceuticals adsorption using sulfonic acid grafted chitosan. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 230, 1-5	6	30
275	Controlled release formulations of risperidone antipsychotic drug in novel aliphatic polyester carriers: Data analysis and modelling. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2015</b> , 94, 473-84	5.7	30
274	Dissolution rate enhancement and physicochemical characterization of carbamazepine-poloxamer solid dispersions. <i>Pharmaceutical Development and Technology</i> , <b>2016</b> , 21, 268-76	3.4	30
273	Chitosan Nanoparticles with Encapsulated Natural and UF-Purified Annatto and Saffron for the Preparation of UV Protective Cosmetic Emulsions. <i>Molecules</i> , <b>2018</b> , 23,	4.8	29
272	Toward Efficient Drug Delivery through Suitably Prepared MetalOrganic Frameworks: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 8885-8890	3.8	29
271	Isotactic Polypropylene/Multi-Walled Carbon Nanotube Nanocomposites: The Effect of Modification of MWCNTs on Mechanical Properties and Melt Crystallization. <i>Macromolecular Chemistry and Physics</i> , <b>2013</b> , 214, 2415-2431	2.6	29
270	Poly(vinyl pyrrolidone)Poloxamer-188 solid dispersions prepared by hot melt extrusion. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 113, 1037-1047	4.1	29
269	Enhancing mechanical and thermal properties of PLLA ligaments with fumed silica nanoparticles and montmorillonite. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 313-323	4.1	29
268	Optimizing Melt-Processing Conditions for the Preparation of iPP/Fumed Silica Nanocomposites: Morphology, Mechanical and Gas Permeability Properties. <i>Macromolecular Reaction Engineering</i> , <b>2007</b> , 1, 488-501	1.5	29
267	PLGA/SBA-15 mesoporous silica composite microparticles loaded with paclitaxel for local chemotherapy. <i>European Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 99, 32-44	5.1	28
266	Molecular simulations for amorphous drug formulation: Polymeric matrix properties relevant to hot-melt extrusion. <i>European Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 119, 259-267	5.1	28
265	Crystallization and Melting Behavior of Poly(Butylene Succinate) Nanocomposites Containing Silica-Nanotubes and Strontium Hydroxyapatite Nanorods. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 678-692	3.9	28
264	HDPE/Cu-nanofiber nanocomposites with enhanced mechanical and UV stability properties. <i>Composites Part B: Engineering</i> , <b>2013</b> , 55, 407-420	10	28
263	Novel poly(butylene succinate) nanocomposites containing strontium hydroxyapatite nanorods with enhanced osteoconductivity for tissue engineering applications. <i>EXPRESS Polymer Letters</i> , <b>2015</b> , 9, 773-789	3.4	28
262	Sustainable Polymers from Renewable Resources: Polymer Blends of Furan-Based Polyesters. <i>Macromolecular Materials and Engineering</i> , <b>2018</b> , 303, 1800153	3.9	28
261	Solid State Polymerization of Poly(Ethylene Furanoate) and Its Nanocomposites with SiO <sub>2</sub> and TiO <sub>2</sub> . <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1700012	3.9	27



- 260 Synthesis, Characterization, and Biodegradability of Novel Fully Biobased Poly(decamethylene-co-isosorbide 2,5-furandicarboxylate) Copolyesters with Enhanced Mechanical Properties. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 5501-5514 8.3 27
- 259 Effect of activated carbon black nanoparticles on solid state polymerization of poly(ethylene terephthalate). *European Polymer Journal*, **2006**, 42, 3190-3201 5.2 27
- 258 Use of silanes and copolymers as adhesion promoters in glass fiber/polyethylene composites. *Journal of Applied Polymer Science*, **2001**, 80, 2877-2888 2.9 27
- 257 Reinforcement of a PMMA resin for interim fixed prostheses with silica nanoparticles. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 69, 213-222 4.1 26
- 256 Exploring Next-Generation Engineering Bioplastics: Poly(alkylene furanoate)/Poly(alkylene terephthalate) (PAF/PAT) Blends. *Polymers*, **2019**, 11, 4.5 26
- 255 Comparative study of the photochemical stability of HDPE/Ag composites. *Polymer Degradation and Stability*, **2018**, 153, 23-36 4.7 26
- 254 Chain Conformation, Molecular Dynamics, and Thermal Properties of Poly(n-methylene 2,5-furanoates) as a Function of Methylene Unit Sequence Length. *Macromolecules*, **2019**, 52, 6533-6546 5.5 26
- 253 Evaluation of silica-nanotubes and strontium hydroxyapatite nanorods as appropriate nanoadditives for poly(butylene succinate) biodegradable polyester for biomedical applications. *Composites Part B: Engineering*, **2014**, 60, 49-59 10 26
- 252 Crystallization of poly(butylene-2,6-naphthalate-co-butylene adipate) copolymers: regulating crystal modification of the polymorphic parent homopolymers and biodegradation. *CrystEngComm*, **2014**, 16, 7963-7978 3.3 26
- 251 Solid-State Polymerization of Poly(ethylene furanoate) Biobased Polyester, I: Effect of Catalyst Type on Molecular Weight Increase. *Polymers*, **2017**, 9, 4.5 26
- 250 Effect of different nanoparticles on the properties and enzymatic hydrolysis mechanism of aliphatic polyesters. *Polymer Degradation and Stability*, **2012**, 97, 2077-2089 4.7 26
- 249 Kinetics study of cold-crystallization of poly(ethylene terephthalate) nanocomposites with multi-walled carbon nanotubes. *Thermochimica Acta*, **2009**, 493, 68-75 2.9 26
- 248 Oxidized multiwalled carbon nanotubes as effective reinforcement and thermal stability agents of poly(lactic acid) ligaments. *Journal of Applied Polymer Science*, **2010**, 118, 2712-2721 2.9 26
- 247 Photochromic behavior of spiropyran in polystyrene and polycaprolactone thin films [Effect of UV absorber and antioxidant compound. *Dyes and Pigments*, **2008**, 76, 386-393 4.6 26
- 246 Synthesis, thermal characterization, and tensile properties of aliphatic polyesters derived from 1,3-propanediol and terephthalic, isophthalic, and 2,6-naphthalenedicarboxylic acid. *Journal of Polymer Science Part A*, **2005**, 43, 3998-4011 2.5 26
- 245 Polyhedral iron oxide core-shell nanoparticles in a biodegradable polymeric matrix: preparation, characterization and application in magnetic particle hyperthermia and drug delivery. *RSC Advances*, **2013**, 3, 24367 3.7 25
- 244 Compatibility study betweentrandolapril and natural excipients used in solid dosage forms. *Journal of Thermal Analysis and Calorimetry*, **2013**, 111, 2109-2115 4.1 25
- 243 Novel miscible poly(ethylene sebacate)/poly(4-vinyl phenol) blends: Miscibility, melting behavior and crystallization study. *Polymer*, **2011**, 52, 4553-4561 3.9 25



242	Use of mesoporous cellular foam (MCF) in preparation of polymeric microspheres for long acting injectable release formulations of paliperidone antipsychotic drug. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2017</b> , 117, 77-90	5.7	24
241	Value-added industrial products from bast fiber crops. <i>Industrial Crops and Products</i> , <b>2015</b> , 68, 116-125	5.9	24
240	Synthesis and crystallization of new fully renewable resources-based copolyesters: Poly(1,4-cyclohexanedimethanol-co-isosorbide 2,5-furandicarboxylate). <i>Polymer Degradation and Stability</i> , <b>2018</b> , 152, 177-190	4.7	24
239	Insights into crystallization and melting of high density polyethylene/graphene nanocomposites studied by Fast scanning calorimetry. <i>Polymer Testing</i> , <b>2018</b> , 67, 349-358	4.5	24
238	Mechanical, thermal and decomposition behavior of poly(ε-caprolactone) nanocomposites with clay-supported carbon nanotube hybrids. <i>Thermochimica Acta</i> , <b>2016</b> , 642, 67-80	2.9	24
237	Effect of nanofiller size and shape on the solid state microstructure and thermal properties of poly(butylene succinate) nanocomposites. <i>Thermochimica Acta</i> , <b>2014</b> , 590, 181-190	2.9	24
236	Competitive crystallization of a propylene/ethylene random copolymer filled with a nucleating agent and multi-walled carbon nanotubes. Conventional and ultrafast DSC study. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 14875-84	3.4	24
235	Crystallization study and comparative in vitro-in vivo hydrolysis of PLA reinforcement ligament. <i>International Journal of Molecular Sciences</i> , <b>2011</b> , 12, 6597-618	6.3	24
234	Synthesis and comparative study of biodegradable poly(alkylene sebacate)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 672-686	2.6	24
233	Synthesis and thermal behaviour of poly(ethylene-co-butylene naphthalene-2,6-dicarboxylate)s. <i>Polymer</i> , <b>1998</b> , 39, 4129-4134	3.9	24
232	Synthesis, characterization, and thermal degradation mechanism of fast biodegradable PPSu/PCL copolymers. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 5076-5090	2.5	24
231	Chitosan Grafted Adsorbents for Diclofenac Pharmaceutical Compound Removal from Single-Component Aqueous Solutions and Mixtures. <i>Polymers</i> , <b>2019</b> , 11,	4.5	23
230	Analytical and Computational Methods for the Estimation of Drug-Polymer Solubility and Miscibility in Solid Dispersions Development. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	23
229	Thermal degradation kinetics and decomposition mechanism of PBSu nanocomposites with silica-nanotubes and strontium hydroxyapatite nanorods. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 4830-42	3.6	23
228	Chitosan Derivatives with Mucoadhesive and Antimicrobial Properties for Simultaneous Nanoencapsulation and Extended Ocular Release Formulations of Dexamethasone and Chloramphenicol Drugs. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	23
227	Effect of rigid nanoparticles and preparation techniques on the performances of poly(lactic acid) nanocomposites: A review. <i>Polymers for Advanced Technologies</i> , <b>2021</b> , 32, 444-460	3.2	23
226	Synthesis and characterization of novel polymer/clay nanocomposites based on poly (butylene 2,5-furan dicarboxylate). <i>Applied Clay Science</i> , <b>2020</b> , 190, 105588	5.2	22
225	The effect of physical state on the drug dissolution rate. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2009</b> , 95, 903-915	4.1	22

224	Thermal degradation kinetics and decomposition mechanism of two new aliphatic biodegradable polyesters poly(propylene glutarate) and poly(propylene suberate). <i>Thermochimica Acta</i> , <b>2010</b> , 505, 59-68 <sup>9</sup>	2.9	22
223	Step-scan TMDSC and high rate DSC study of the multiple melting behavior of poly(1,3-propylene terephthalate). <i>European Polymer Journal</i> , <b>2006</b> , 42, 434-445	5.2	22
222	Green polymeric materials: On the dynamic homogeneity and miscibility of furan-based polyester blends. <i>Polymer</i> , <b>2019</b> , 174, 187-199	3.9	21
221	Spray Drying for the Preparation of Nanoparticle-Based Drug Formulations as Dry Powders for Inhalation. <i>Processes</i> , <b>2020</b> , 8, 788	2.9	21
220	Advanced low-swelling chitosan/graphite oxide-based biosorbents. <i>Materials Letters</i> , <b>2014</b> , 128, 46-49	3.3	21
219	Crystallization and enzymatic degradation of novel poly( $\epsilon$ -caprolactone-co-propylene succinate) copolymers. <i>European Polymer Journal</i> , <b>2008</b> , 44, 2356-2366	5.2	21
218	Amino-Functionalized Multiwalled Carbon Nanotubes Lead to Successful Ring-Opening Polymerization of Poly( $\epsilon$ -caprolactone): Enhanced Interfacial Bonding and Optimized Mechanical Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11683-94	9.5	20
217	Effects of graphene nanoplatelets on crystallization, mechanical performance and molecular dynamics of the renewable poly(propylene furanoate). <i>Polymer</i> , <b>2020</b> , 189, 122172	3.9	20
216	Crystallization and biodegradation of poly(butylene azelate): Comparison with poly(ethylene azelate) and poly(propylene azelate). <i>Thermochimica Acta</i> , <b>2011</b> , 515, 13-23	2.9	20
215	Structure, thermal transitions and polymer dynamics in nanocomposites based on poly( $\epsilon$ -caprolactone) and nano-inclusions of 1-3D geometry. <i>Thermochimica Acta</i> , <b>2018</b> , 666, 229-240	2.9	20
214	Design of a Multifunctional Nanoengineered PLLA Surface by Maximizing the Synergies between Biochemical and Surface Design Bactericidal Effects. <i>ACS Omega</i> , <b>2018</b> , 3, 1509-1521	3.9	19
213	Melt extrusion process for adjusting drug release of poorly water soluble drug felodipine using different polymer matrices. <i>European Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 114, 332-345	5.1	19
212	Novel high Tg fully biobased poly(hexamethylene-co-isosorbide-2,5-furan dicarboxylate) copolymers: Synergistic effect of isosorbide insertion on thermal performance enhancement. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 169, 108983	4.7	19
211	Microwave-induced enhancement of the dissolution rate of poorly water-soluble tibolone from poly(ethylene glycol) solid dispersions. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 108, 1249-1258	2.9	19
210	Synthesis and Characterization of In-Situ-Prepared Nanocomposites Based on Poly(Propylene 2,5-Furan Dicarboxylate) and Aluminosilicate Clays. <i>Polymers</i> , <b>2018</b> , 10,	4.5	19
209	New N-(2-carboxybenzyl)chitosan composite scaffolds containing nanoTiO <sub>2</sub> or bioactive glass with enhanced cell proliferation for bone-tissue engineering applications. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2017</b> , 66, 71-81	3	18
208	Cost Estimation of Polymeric Adsorbents. <i>Polymers</i> , <b>2019</b> , 11,	4.5	18
207	Risperidone Controlled Release Microspheres Based on Poly(Lactic Acid)-Poly(Propylene Adipate) Novel Polymer Blends Appropriate for Long Acting Injectable Formulations. <i>Pharmaceutics</i> , <b>2018</b> , 10,	6.4	18

206	Effect of the type of nano-filler on the crystallization and mechanical properties of syndiotactic polystyrene based nanocomposites. <i>Thermochimica Acta</i> , <b>2013</b> , 565, 82-94	2.9	18
205	Real time and non-destructive analysis of tablet coating thickness using acoustic microscopy and infrared diffuse reflectance spectroscopy. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 438, 33-44	6.5	18
204	Crystallization of novel poly( $\epsilon$ -caprolactone)-block-poly(propylene adipate) copolymers. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 108, 633-645	4.1	18
203	Melt-crystallization mechanism of poly(ethylene terephthalate)/multi-walled carbon nanotubes prepared by in situ polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2009</b> , 47, 1452-1466	2.6	18
202	Synthesis of biocompatible poly( $\epsilon$ -caprolactone)- block-poly(propylene adipate) copolymers appropriate for drug nanoencapsulation in the form of core-shell nanoparticles. <i>International Journal of Nanomedicine</i> , <b>2011</b> , 6, 2981-95	7.3	18
201	Effectiveness of various drug carriers in controlled release formulations of raloxifene HCl prepared by melt mixing. <i>Current Drug Delivery</i> , <b>2009</b> , 6, 425-36	3.2	18
200	Recent advances in oral pulsatile drug delivery. <i>Recent Patents on Drug Delivery and Formulation</i> , <b>2009</b> , 3, 49-63	1.4	18
199	Synthesis and characterization of novel poly(propylene terephthalate-co-adipate) biodegradable random copolyesters. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 627-637	4.7	18
198	"Apparent" Young's elastic modulus and radial recovery for some tableted pharmaceutical excipients. <i>European Journal of Pharmaceutical Sciences</i> , <b>2004</b> , 21, 197-207	5.1	18
197	Interfacial Interactions, Crystallization, and Molecular Dynamics of Renewable Poly(Propylene Furanoate) In Situ Filled with Initial and Surface Functionalized Carbon Nanotubes and Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 10220-10234	3.8	18
196	Comparison of multi-linear regression, particle swarm optimization artificial neural networks and genetic programming in the development of mini-tablets. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 551, 166-176	6.5	18
195	Biobased Poly(ethylene furanoate) Polyester/TiO <sub>2</sub> Supported Nanocomposites as Effective Photocatalysts for Anti-inflammatory/Analgesic Drugs. <i>Molecules</i> , <b>2019</b> , 24,	4.8	17
194	Preparation of theophylline inhalable microcomposite particles by wet milling and spray drying: The influence of mannitol as a co-milling agent. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 514, 200-211	6.5	17
193	Morphology, thermal properties and molecular dynamics of syndiotactic polystyrene (s-PS) nanocomposites with aligned graphene oxide and graphene nanosheets. <i>Polymer</i> , <b>2018</b> , 153, 548-557	3.9	17
192	New thermosensitive nanoparticles prepared by biocompatible pegylated aliphatic polyester block copolymers for local cancer treatment. <i>Journal of Pharmacy and Pharmacology</i> , <b>2015</b> , 67, 215-30	4.8	17
191	In situ prepared PBSu/SiO <sub>2</sub> nanocomposites. Study of thermal degradation mechanism. <i>Thermochimica Acta</i> , <b>2009</b> , 495, 120-128	2.9	17
190	Dissolution rate enhancement of the poorly water-soluble drug Tibolone using PVP, SiO <sub>2</sub> , and their nanocomposites as appropriate drug carriers. <i>Drug Development and Industrial Pharmacy</i> , <b>2009</b> , 35, 1128-38	3.6	17
189	Structure and properties of blends of poly(ethylene-co-vinyl alcohol) with poly(styrene-co-maleic anhydride). <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 64, 983-999	2.9	17

- 188 Synthesis, crystallization and tensile properties of poly(ethylene terephthalate-co-2,6-naphthalate)s with low naphthalate units content. *Polymer*, **2003**, 44, 7801-7808 3.9 17
- 187 Compact size and mechanical strength of pharmaceutical diluents. *European Journal of Pharmaceutical Sciences*, **2005**, 24, 169-77 5.1 17
- 186 Aging effects on low- and high-density polyethylene, polypropylene and polystyrene under UV irradiation: An insight into decomposition mechanism by Py-GC/MS for microplastic analysis. *Journal of Analytical and Applied Pyrolysis*, **2021**, 158, 105207 6 17
- 185 Effect of graphene oxide and its modification on the microstructure, thermal properties and enzymatic hydrolysis of poly(ethylene succinate) nanocomposites. *Thermochimica Acta*, **2015**, 614, 116-128 2.8 16
- 184 Chitosan dressings containing inorganic additives and levofloxacin as potential wound care products with enhanced hemostatic properties. *International Journal of Biological Macromolecules*, **2020**, 162, 693-703 7.9 16
- 183 Effect of surface functionalization of halloysite nanotubes on synthesis and thermal properties of poly(Ecaprolactone). *Journal of Materials Science*, **2018**, 53, 6519-6541 4.3 16
- 182 Thermal, nanoindentation and dielectric study of nanocomposites based on poly(propylene furanoate) and various inclusions. *Materials Today Communications*, **2019**, 20, 100585 2.5 16
- 181 Synergistic Effect of Functionalized Silica Nanoparticles and a Nucleating Agent for the Improvement of the Mechanical Properties of a Propylene/Ethylene Random Copolymer. *Macromolecular Materials and Engineering*, **2014**, 299, 707-721 3.9 16
- 180 A different approach for the study of the crystallization kinetics in polymers. Key study: poly(ethylene terephthalate)/ SiO<sub>2</sub> nanocomposites. *Polymer International*, **2010**, 59, 1630-1638 3.3 16
- 179 Properties of miscible blends of polyglutarimide with poly(styrene-co-maleic anhydride). *Polymer*, **1997**, 38, 5921-5930 3.9 16
- 178 New aspects in sustained drug release formulations. *Recent Patents on Drug Delivery and Formulation*, **2007**, 1, 201-13 1.4 16
- 177 Technique and palette of XIIIth century painting in the monastery of Mileseva. *Applied Physics A: Materials Science and Processing*, **2006**, 83, 719-725 2.6 16
- 176 Synthesis and characterization of poly(ethylene terephthalate-co-isophthalate)s with low content of isophthalate units. *Journal of Applied Polymer Science*, **2002**, 86, 1931-1941 2.9 16
- 175 In situ prepared poly(DL-lactic acid)/silica nanocomposites: Study of molecular composition, thermal stability, glass transition and molecular dynamics. *Thermochimica Acta*, **2018**, 669, 16-29 2.9 16
- 174 Adverse effects polystyrene microplastics exert on zebrafish heart—Molecular to individual level. *Journal of Hazardous Materials*, **2021**, 416, 125969 12.8 16
- 173 Solid-State Polymerization of Poly(Ethylene Furanoate) Biobased Polyester, III: Extended Study on Effect of Catalyst Type on Molecular Weight Increase. *Polymers*, **2019**, 11, 4.5 15
- 172 Effect of Poly(vinyl alcohol) on Nanoencapsulation of Budesonide in Chitosan Nanoparticles via Ionic Gelation and Its Improved Bioavailability. *Polymers*, **2020**, 12, 4.5 15
- 171 Hierarchical Porous Carbon-PLLA and PLGA Hybrid Nanoparticles for Intranasal Delivery of Galantamine for Alzheimer's Disease Therapy. *Pharmaceutics*, **2020**, 12, 6.4 15

170	Rigid Amorphous Fraction and Thermal Diffusivity in Nanocomposites Based on Poly(l-lactic acid) Filled with Carbon Nanotubes and Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 5469-5479	3.8	15
169	Synthesis and physicochemical properties of a new biocompatible chitosan grafted with 5-hydroxymethylfurfural. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 222, 268-271	6	15
168	Properties and energetics for design and characterization of chitosan nanoparticles used for drug encapsulation. <i>RSC Advances</i> , <b>2014</b> , 4, 12653	3.7	15
167	Effect of organoclays type on solid-state polymerization (SSP) of poly(ethylene terephthalate): Experimental and modeling. <i>European Polymer Journal</i> , <b>2015</b> , 63, 156-167	5.2	15
166	Chitosan Grafted with Biobased 5-Hydroxymethyl-Furfural as Adsorbent for Copper and Cadmium Ions Removal. <i>Polymers</i> , <b>2020</b> , 12,	4.5	15
165	Influence of montmorillonite/carbon nanotube hybrid nanofillers on the properties of poly(lactic acid). <i>Applied Clay Science</i> , <b>2021</b> , 201, 105925	5.2	15
164	Comparative study of crystallization, semicrystalline morphology, and molecular mobility in nanocomposites based on polylactide and various inclusions at low filler loadings. <i>Polymer</i> , <b>2021</b> , 217, 123457	3.9	15
163	Paclitaxel Magnetic Core-Shell Nanoparticles Based on Poly(lactic acid) Semitelechelic Novel Block Copolymers for Combined Hyperthermia and Chemotherapy Treatment of Cancer. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	14
162	New insights into transformation pathways of a mixture of cytostatic drugs using Polyester-TiO films: Identification of intermediates and toxicity assessment. <i>Science of the Total Environment</i> , <b>2020</b> , 741, 140394	10.2	14
161	Crystallization tendency of APIs possessing different thermal and glass related properties in amorphous solid dispersions. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 579, 119149	6.5	14
160	Biocompatible Nanobioglass Reinforced Poly(ε-Caprolactone) Composites Synthesized via In Situ Ring Opening Polymerization. <i>Polymers</i> , <b>2018</b> , 10,	4.5	14
159	Antibacterial properties and regenerative potential of Sr and Ce doped fluorapatites; a potential solution for peri-implantitis. <i>Scientific Reports</i> , <b>2019</b> , 9, 14469	4.9	14
158	Effect of MWCNTs and their modification on crystallization and thermal degradation of poly(butylene naphthalate). <i>Thermochimica Acta</i> , <b>2017</b> , 656, 59-69	2.9	14
157	Wide-angle X-ray diffraction and differential scanning calorimetry study of the crystallization of poly(ethylene naphthalate), poly(butylene naphthalate), and their copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 843-860	2.6	14
156	Adsorption of As(III) and As(V) onto colloidal microparticles of commercial cross-linked polyallylamine (Sevelamer) from single and binary ion solutions. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 474, 137-45	9.3	14
155	Thermal Decomposition Kinetics and Mechanism of In-Situ Prepared Bio-based Poly(propylene 2,5-furan dicarboxylate)/Graphene Nanocomposites. <i>Molecules</i> , <b>2019</b> , 24,	4.8	13
154	Synthesis, Thermal Properties and Decomposition Mechanism of Poly(Ethylene Vanillate) Polyester. <i>Polymers</i> , <b>2019</b> , 11,	4.5	13
153	Rivaroxaban polymeric amorphous solid dispersions: Moisture-induced thermodynamic phase behavior and intermolecular interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2019</b> , 145, 98-112	5.7	13



152	Understanding the mechanical and thermal property reinforcement of crosslinked polyethylene by nanodiamonds and carbon nanotubes. <i>RSC Advances</i> , <b>2014</b> , 4, 45522-45534	3.7	13
151	Fibre length and loading impact on the properties of glass fibre reinforced polypropylene random composites. <i>Composite Structures</i> , <b>2021</b> , 263, 113678	5.3	13
150	Synthesis and characterization of two new biobased poly(pentylene 2,5-furandicarboxylate-co-caprolactone) and poly(hexamethylene 2,5-furandicarboxylate-co-caprolactone) copolyesters with enhanced enzymatic hydrolysis properties. <i>Polymer Degradation and Stability</i> , <b>2019</b> , 160, 242-263	4.7	13
149	Synthesis, Crystallization, Structure Memory Effects, and Molecular Dynamics of Biobased and Renewable Poly(n-alkylene succinate)s with n from 2 to 10. <i>Macromolecules</i> , <b>2021</b> , 54, 1106-1119	5.5	13
148	Kinetics of Crystallization and Thermal Degradation of an Isotactic Polypropylene Matrix Reinforced with Graphene/Glass-Fiber Filler. <i>Molecules</i> , <b>2019</b> , 24,	4.8	12
147	Molecular modelling and simulation of fusion-based amorphous drug dispersions in polymer/plasticizer blends. <i>European Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 130, 260-268	5.1	12
146	Enhancing the properties of poly(propylene succinate) by the incorporation of crystallizable symmetrical amido diols. <i>European Polymer Journal</i> , <b>2019</b> , 120, 109195	5.2	12
145	Decomposition kinetic and mechanism of syndiotactic polystyrene nanocomposites with MWCNTs and nanodiamonds studied by TGA and Py-GC/MS. <i>Thermochimica Acta</i> , <b>2014</b> , 583, 15-24	2.9	12
144	Mechanical properties and crystallization of high-density polyethylene composites with mesostructured cellular silica foam. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 113, 1651-1665	4.1	12
143	Molecular Imprinting for High-Added Value Metals: An Overview of Recent Environmental Applications. <i>Advances in Materials Science and Engineering</i> , <b>2014</b> , 2014, 1-8	1.5	12
142	Crystallization and enzymatic hydrolysis of PLA grade for orthopedics. <i>Advances in Polymer Technology</i> , <b>2010</b> , 29, 280-299	1.9	12
141	Synthesis, Crystallization, and Enzymatic Degradation of the Biodegradable Polyester Poly(ethylene azelate). <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 2585-2595	2.6	12
140	Recommendations for replacing PET on packaging, fiber, and film materials with biobased counterparts. <i>Green Chemistry</i> , <b>2021</b> , 23, 8795-8820	10	12
139	Cold Crystallization Kinetics and Thermal Degradation of PLA Composites with Metal Oxide Nanofillers. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3004	2.6	12
138	Characterization of binding properties of silver ion-imprinted polymers with equilibrium and kinetic models. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 212, 133-141	6	11
137	Calorimetric and Dielectric Study of Renewable Poly(hexylene 2,5-furan-dicarboxylate)-Based Nanocomposites In Situ Filled with Small Amounts of Graphene Platelets and Silica Nanoparticles. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
136	Sustainable Plastics from Biomass: Blends of Polyesters Based on 2,5-Furandicarboxylic Acid. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
135	Miscibility and Properties of New Poly(propylene succinate)/Poly(4-vinylphenol) Blends. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 11948-11955	3.9	11



134	Characterization and Crystallization Kinetics of in situ Prepared Poly(propylene terephthalate)/SiO <sub>2</sub> Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 66-79	2.6	11
133	Dynamic thermomechanical and tensile properties of chain-extended poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 70, 797-803	2.9	11
132	Molecular Dynamics in Nanocomposites Based on Renewable Poly(butylene 2,5-furan-dicarboxylate) In Situ Reinforced by Montmorillonite Nanoclays: Effects of Clay Modification, Crystallization, and Hydration. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 7306-7317	3.4	11
131	Synthesis and Characterization of Mesoporous Mg- and Sr-Doped Nanoparticles for Moxifloxacin Drug Delivery in Promising Tissue Engineering Applications. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	11
130	Composite Membranes of Poly( $\epsilon$ -caprolactone) with Bisphosphonate-Loaded Bioactive Glasses for Potential Bone Tissue Engineering Applications. <i>Molecules</i> , <b>2019</b> , 24,	4.8	10
129	Preparation and characterization of Alendronate depot microspheres based on novel poly( $\epsilon$ -caprolactone)/Vitamin E TPGS copolymers. <i>International Journal of Pharmaceutics: X</i> , <b>2019</b> , 1, 100014	3.2	10
128	Polycaprolactone/multi-wall carbon nanotube nanocomposites prepared by in situ ring opening polymerization: Decomposition profiling using thermogravimetric analysis and analytical pyrolysis-gas chromatography/mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2015</b> , 115, 125-131	6	10
127	Nanoencapsulation of Nimodipine in Novel Biocompatible Poly(propylene-co-butylene succinate) Aliphatic Copolyesters for Sustained Release. <i>Journal of Nanomaterials</i> , <b>2009</b> , 2009, 1-11	3.2	10
126	Molecular dynamics, crystallization and hydration study of Poly(Propylene succinate) based Poly(Ester amide)s. <i>Polymer</i> , <b>2020</b> , 186, 122056	3.9	10
125	Mechanical and thermal properties of PMMA resin composites for interim fixed prostheses reinforced with calcium hydroxyapatite. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 112, 104094	4.1	10
124	Simultaneous removal of anti-inflammatory pharmaceutical compounds from an aqueous mixture with adsorption onto chitosan zwitterionic derivative. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 619, 126498	5.1	10
123	New Biodegradable Poly(L-lactide)-Block-Poly(propylene adipate) Copolymer Microparticles for Long-Acting Injectables of Naltrexone Drug. <i>Polymers</i> , <b>2020</b> , 12,	4.5	10
122	Tuning thermo-mechanical properties of poly(lactic acid) films through blending with bioderived poly(alkylene furanoate)s with different alkyl chain length for sustainable packaging. <i>Polymer</i> , <b>2021</b> , 218, 123527	3.9	10
121	Amphiphilic Block Copolymer Microspheres Derived from Castor Oil, Poly( $\epsilon$ -caprolactone), and Poly(ethylene glycol): Preparation, Characterization and Application in Naltrexone Drug Delivery. <i>Materials</i> , <b>2018</b> , 11,	3.5	10
120	Properties of poly(lactic acid)/montmorillonite/carbon nanotubes nanocomposites: determination of percolation threshold. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 16887-16901	4.3	10
119	Preliminary Evaluation of 3D Printed Chitosan/Pectin Constructs for Biomedical Applications. <i>Marine Drugs</i> , <b>2021</b> , 19,	6	10
118	A biomimetic approach for enhancing adhesion and osteogenic differentiation of adipose-derived stem cells on poly(butylene succinate) composites with bioactive ceramics and glasses. <i>European Polymer Journal</i> , <b>2017</b> , 87, 159-173	5.2	9
117	Alternative use of cross-linked polyallylamine (known as Sevelamer pharmaceutical compound) as biosorbent. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 442, 49-59	9.3	9

116	Nanostructured Composites of Sodium Montmorillonite Clay and PEO Used in Dissolution Improvement of Aprepitant Drug by Melt Mixing. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 786	2.6	9
115	Application of density functional theory in combination with FTIR and DSC to characterise polymer drug interactions for the preparation of sustained release formulations between fluvastatin and carrageenans. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 466, 211-22	6.5	9
114	Miscibility and properties of polyglutarimide poly(styrene-co-maleic anhydride) blends. <i>Polymer</i> , <b>1999</b> , 40, 4741-4753	3.9	9
113	Poly(Lactic Acid)-Based Microparticles for Drug Delivery Applications: An Overview of Recent Advances.. <i>Pharmaceutics</i> , <b>2022</b> , 14,	6.4	9
112	Preparation and Evaluation of Collagen-Based Patches as Curcumin Carriers. <i>Polymers</i> , <b>2020</b> , 12,	4.5	9
111	Effect of high surface area mesoporous silica fillers (MCF and SBA-15) on solid state polymerization of PET. <i>European Polymer Journal</i> , <b>2016</b> , 81, 347-364	5.2	9
110	Sustainable thermoplastics from renewable resources: Thermal behavior of poly(1,4-cyclohexane dimethylene 2,5-furandicarboxylate). <i>European Polymer Journal</i> , <b>2019</b> , 112, 1-14	5.2	9
109	Bottom-Up Development of Nanoimprinted PLLA Composite Films with Enhanced Antibacterial Properties for Smart Packaging Applications. <i>Macromol</i> , <b>2021</b> , 1, 49-63		9
108	Preparation of New Risperidone Depot Microspheres Based on Novel Biocompatible Poly(Alkylene Adipate) Polyesters as Long-Acting Injectable Formulations. <i>Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 107, 2891-2901	3.9	9
107	Biobased Engineering Thermoplastics: Poly(butylene 2,5-furandicarboxylate) Blends. <i>Polymers</i> , <b>2019</b> , 11,	4.5	8
106	Effect of clay modification on structure-property relationships and thermal degradation kinetics of polypropylene/clay composite materials. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 122, 393-406	4.1	8
105	Partially hydrolyzed polyvinyl alcohol for fusion-based pharmaceutical formulation processes: Evaluation of suitable plasticizers. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 578, 119121	6.5	8
104	Insight into the Formation of Glimepiride Nanocrystals by Wet Media Milling. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	8
103	Water sorption thermodynamics in poly(propylene sebacate). <i>Polymer</i> , <b>2016</b> , 97, 346-361	3.9	8
102	Substantial enhancement of PP random copolymer's thermal stability due to the addition of MWCNTs and nanodiamonds: Decomposition kinetics and mechanism study. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 106, 71-80	6	8
101	Effect of high energy ball milling on the structure and mechanical properties of cross-linked high density polyethylene. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 6753-6761	4.3	8
100	Novel Isocyanate-Modified Carrageenan Polymer Materials: Preparation, Characterization and Application Adsorbent Materials of Pharmaceuticals. <i>Polymers</i> , <b>2017</b> , 9,	4.5	8
99	PPSu-PEG Copolymers and their Application in the Preparation of Cisplatin-loaded Nanoparticles. <i>Current Nanoscience</i> , <b>2011</b> , 7, 503-509	1.4	8

98	Kinetic Analysis of Nanocomposites Prepared in situ Consisting of an Aliphatic Biodegradable Polyester and Fumed Silica Nanoparticles. <i>Macromolecular Reaction Engineering</i> , <b>2011</b> , 5, 178-189	1.5	8
97	Synthesis, crystallization, and molecular mobility in poly( $\epsilon$ -caprolactone) copolyesters of different architectures for biomedical applications studied by calorimetry and dielectric spectroscopy. <i>Soft Matter</i> , <b>2020</b> , 16, 8187-8201	3.6	8
96	Insights into the toxicity of biomaterials microparticles with a combination of cellular and oxidative biomarkers. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125335	12.8	8
95	Adsorption Evaluation for the Removal of Nickel, Mercury, and Barium Ions from Single-Component and Mixtures of Aqueous Solutions by Using an Optimized Biobased Chitosan Derivative. <i>Polymers</i> , <b>2021</b> , 13,	4.5	8
94	Block copolymers based on poly(butylene adipate) and poly(L-lactic acid) for biomedical applications: synthesis, structure and thermodynamical studies. <i>Soft Matter</i> , <b>2021</b> , 17, 2439-2453	3.6	8
93	Do poly(lactic acid) microplastics instigate a threat? A perception for their dynamic towards environmental pollution and toxicity.. <i>Science of the Total Environment</i> , <b>2022</b> , 155014	10.2	8
92	Overcoming the Solubility Barrier of Ibuprofen by the Rational Process Design of a Nanocrystal Formulation. <i>Pharmaceutics</i> , <b>2020</b> , 12,	6.4	7
91	Effective and facile solvent-free synthesis route to novel biobased monomers from vanillic acid: Structure-thermal property relationships of sustainable polyesters. <i>Polymer Degradation and Stability</i> , <b>2020</b> , 181, 109315	4.7	7
90	Microencapsulation of Fluticasone Propionate and Salmeterol Xinafoate in Modified Chitosan Microparticles for Release Optimization. <i>Molecules</i> , <b>2020</b> , 25,	4.8	7
89	Effects of poly(hexylene succinate) amount on the crystallization and molecular mobility of poly(lactic acid) copolymers. <i>Thermochimica Acta</i> , <b>2021</b> , 698, 178883	2.9	7
88	Chitosan Adsorbent Derivatives for Pharmaceuticals Removal from Effluents: A Review. <i>Macromol</i> , <b>2021</b> , 1, 130-154		7
87	Poly(propylene vanillate): A Sustainable Lignin-Based Semicrystalline Engineering Polyester. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 1383-1397	8.3	7
86	Emerging nanocomposite biomaterials as biomedical adsorbents: an overview. <i>Composite Interfaces</i> , <b>2018</b> , 25, 415-454	2.3	7
85	Basic Dye Removal with Sorption onto Low-Cost Natural Textile Fibers. <i>Processes</i> , <b>2018</b> , 6, 166	2.9	7
84	Microplastics in the environment: Sampling, pretreatment, analysis and occurrence based on current and newly-exploited chromatographic approaches. <i>Science of the Total Environment</i> , <b>2021</b> , 794, 148725	10.2	7
83	Novel Castor Oil-Derived Block Copolymers as Promising Candidates for Biological Applications: Biorelevant and Biocompatible. <i>Macromolecular Chemistry and Physics</i> , <b>2017</b> , 218, 1700305	2.6	6
82	A Facile Method to Synthesize Semicrystalline Poly(ester amide)s from 2,5-Furandicarboxylic Acid, 1,10-Decanediol, and Crystallizable Amido Diols. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> ,	8.3	6
81	Polysaccharide 3D Printing for Drug Delivery Applications.. <i>Pharmaceutics</i> , <b>2022</b> , 14,	6.4	6

80	Influence of Graphene Platelet Aspect Ratio on the Mechanical Properties of HDPE Nanocomposites: Microscopic Observation and Micromechanical Modeling. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
79	Mechanical and Functional Properties of Novel Biobased Poly(decylene-2,5-furanoate)/Carbon Nanotubes Nanocomposite Films. <i>Polymers</i> , <b>2020</b> , 12,	4.5	6
78	Incorporation of Metal-Based Nanoadditives into the PLA Matrix: Effect of Surface Properties on Antibacterial Activity and Mechanical Performance of PLA Nanoadditive Films. <i>Molecules</i> , <b>2021</b> , 26,	4.8	6
77	Investigation of the catalytic activity and reaction kinetic modeling of two antimony catalysts in the synthesis of poly(ethylene furanoate). <i>Green Chemistry</i> , <b>2021</b> , 23, 2507-2524	10	6
76	mRNA Therapeutic Modalities Design, Formulation and Manufacturing under Pharma 4.0 Principles.. <i>Biomedicines</i> , <b>2021</b> , 10,	4.8	6
75	Aprepitant Drug in Ternary Pharmaceutical Solid Dispersions with Soluplus <sup>®</sup> and Poloxamer 188 Prepared by Melt Mixing. <i>Sci</i> , <b>2019</b> , 1, 29	0.7	5
74	Amorphous agomelatine stabilization in the presence of pyrogenic silica: Molecular mobility and intermolecular interaction studies. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2019</b> , 139, 291-300	5.7	5
73	Towards High Molecular Weight Furan-Based Polyesters: Solid State Polymerization Study of Bio-Based Poly(Propylene Furanoate) and Poly(Butylene Furanoate). <i>Materials</i> , <b>2020</b> , 13,	3.5	5
72	Mechanical properties and drug release of venlafaxine HCl solid mini matrices prepared by hot-melt extrusion and hot or ambient compression. <i>Drug Development and Industrial Pharmacy</i> , <b>2018</b> , 44, 338-348	3.6	5
71	Thermomechanical-electrical properties and micromechanics modeling of linear low density polyethylene reinforced with multi-walled carbon nanotubes. <i>Polymer Composites</i> , <b>2018</b> , 39, E1118-E1128	3	5
70	Physicochemical characterization and decomposition kinetics of trandolapril. <i>Thermochimica Acta</i> , <b>2012</b> , 539, 92-99	2.9	5
69	Effect of Silica Nanoparticles Modification on the Thermal, Structural, and Decomposition Properties of a $\beta$ -Nucleated Poly(propylene-co-ethylene) Matrix. <i>Macromolecular Chemistry and Physics</i> , <b>2014</b> , 215, 839-850	2.6	5
68	Effect of Cu-nanofibers and Ag-nanoparticles on syndiotactic polystyrene thermal stability and on its decomposition mechanism. <i>Thermochimica Acta</i> , <b>2013</b> , 561, 26-35	2.9	5
67	Toxicity and Functional Tissue Responses of Two Freshwater Fish after Exposure to Polystyrene Microplastics. <i>Toxics</i> , <b>2021</b> , 9,	4.7	5
66	Folate and Pegylated Aliphatic Polyester Nanoparticles for Targeted Anticancer Drug Delivery. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 4899-4918	7.3	5
65	Non-isothermal crystallization kinetics of graphite-reinforced crosslinked high-density polyethylene composites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 142, 1849-1861	4.1	5
64	Influence of Reactive Chain Extension on the Properties of 3D Printed Poly(Lactic Acid) Constructs. <i>Polymers</i> , <b>2021</b> , 13,	4.5	5
63	Sildenafil 4.0-Integrated Synthetic Chemistry, Formulation and Analytical Strategies Effecting Immense Therapeutic and Societal Impact in the Fourth Industrial Era. <i>Pharmaceutics</i> , <b>2021</b> , 14,	5.2	5

62	Thermal Degradation Mechanism and Decomposition Kinetic Studies of Poly(Lactic Acid) and Its Copolymers with Poly(Hexylene Succinate). <i>Polymers</i> , <b>2021</b> , 13,	4.5	5
61	Innovative Bio-based Poly(Lactic Acid)/Poly(Alkylene Furanoate)s Fiber Blends for Sustainable Textile Applications. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 3948	4.5	5
60	Effects of Ag, ZnO and TiO <sub>2</sub> nanoparticles at low contents on the crystallization, semicrystalline morphology, interfacial phenomena and segmental dynamics of PLA. <i>Materials Today Communications</i> , <b>2021</b> , 27, 102192	2.5	5
59	Towards increased sustainability for aromatic polyesters: Poly(butylene 2,5-furandicarboxylate) and its blends with poly(butylene terephthalate). <i>Polymer</i> , <b>2021</b> , 212, 123157	3.9	5
58	Low Molecular Weight Oligomers of Poly(alkylene succinate) Polyesters as Plasticizers in Poly(vinyl alcohol) Based Pharmaceutical Applications. <i>Polymers</i> , <b>2021</b> , 13,	4.5	5
57	Bio-economy in Greece: Current trends and the road ahead. <i>The EuroBiotech Journal</i> , <b>2018</b> , 2, 137-145	1.5	5
56	Differentiation in the expression of toxic effects of polyethylene-microplastics on two freshwater fish species: Size matters.. <i>Science of the Total Environment</i> , <b>2022</b> , 154603	10.2	5
55	Differentiation Capacity of Monocyte-Derived Multipotential Cells on Nanocomposite Poly(e-caprolactone)-Based Thin Films. <i>Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 16, 161-175	4.5	4
54	Development of a Novel Amorphous Agomelatine Formulation With Improved Storage Stability and Enhanced Bioavailability. <i>Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 107, 257-266	3.9	4
53	Evaluation of Dissolution Enhancement of Aprepitant Drug in Ternary Pharmaceutical Solid Dispersions with Soluplus <sup>®</sup> and Poloxamer 188 Prepared by Melt Mixing. <i>Sci</i> , <b>2019</b> , 1, 48	0.7	4
52	Effect of end group content on photochromic behavior of spiropyran in polycaprolactonePoly(ethylene succinate) blends. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 3623-3633	2.9	4
51	A New Era in Engineering Plastics: Compatibility and Perspectives of Sustainable Aliphatic Poly(ethylene terephthalate)/Poly(ethylene 2,5-furandicarboxylate) Blends. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
50	Development of a Nanocrystal Formulation of a Low Melting Point API Following a Quality by Design Approach. <i>Processes</i> , <b>2021</b> , 9, 954	2.9	4
49	Effectiveness of Esterification Catalysts in the Synthesis of Poly(Ethylene Vanillate). <i>Catalysts</i> , <b>2021</b> , 11, 822	4	4
48	Pharma 4.0 Continuous mRNA Drug Products Manufacturing. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	4
47	Super absorbent chitosan-based hydrogel sponges as carriers for caspofungin antifungal drug. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 606, 120925	6.5	4
46	Structure-Properties relationships in renewable composites based on polylactide filled with Tannin and Kraft Lignin - Crystallization and molecular mobility. <i>Thermochimica Acta</i> , <b>2021</b> , 703, 178998	2.9	4
45	Biocompatible Synthetic Polymers for Tissue Engineering Purposes.. <i>Biomacromolecules</i> , <b>2022</b> ,	6.9	4



44	Evaluation of Dissolution Enhancement of Aprepitant Drug in Ternary Pharmaceutical Solid Dispersions with Soluplus <sup>®</sup> and Poloxamer 188 Prepared by Melt Mixing. <i>Sci</i> , <b>2019</b> , 1, 11	0.7	3
43	Combined and Distinct Contributions of Different Carbon Nano-Forms in Polypropylene. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 611-626	3.9	3
42	Straightforward Synthetic Protocol to Bio-Based Unsaturated Poly(ester amide)s from Itaconic Acid with Thixotropic Behavior. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
41	Crystallization kinetics of orthorhombic paracetamol from supercooled melts studied by non-isothermal DSC. <i>Drug Development and Industrial Pharmacy</i> , <b>2017</b> , 43, 257-263	3.6	3
40	Effect of molar ratio on thermal mass loss kinetics of poly( $\epsilon$ -caprolactone- <i>b</i> -propylene adipate) copolymers. <i>Thermochimica Acta</i> , <b>2011</b> , 517, 45-52	2.9	3
39	Chapter 12 Diagnostic methodology for the examination of Byzantine frescoes and icons. Non-destructive investigation and pigment identification. <i>Comprehensive Analytical Chemistry</i> , <b>2004</b> , 42, 565-604	1.9	3
38	Effect of additives on the thermal and thermo-oxidative stability of poly(ethylene furanoate) biobased polyester. <i>Thermochimica Acta</i> , <b>2020</b> , 686, 178549	2.9	3
37	Multifunctionality of Reduced Graphene Oxide in Bioderived Polylactide/Poly(Dodecylene Furanoate) Nanocomposite Films. <i>Molecules</i> , <b>2021</b> , 26,	4.8	3
36	Synthesis and Characterization of Unsaturated Succinic Acid Biobased Polyester Resins. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 896	2.6	3
35	Insights into Biodegradable Polymer-Supported Titanium Dioxide Photocatalysts for Environmental Remediation. <i>Macromol</i> , <b>2021</b> , 1, 201-233		3
34	Molecular mobility and crystallization of renewable poly(ethylene furanoate) filled with carbon nanotubes and graphene nanoparticles. <i>Soft Matter</i> , <b>2021</b> , 17, 5815-5828	3.6	3
33	Spherulite growth rates of in situ prepared poly(propylene terephthalate)/SiO <sub>2</sub> nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 114, 431-440	4.1	2
32	Effect of ball milling on the mechanical properties and crystallization of graphene nanoplatelets reinforced short chain branched-polyethylene. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50874	2.9	2
31	Graphite reinforced silane crosslinked high density polyethylene: The effect of filler loading on the thermal and mechanical properties. <i>Polymer Composites</i> , <b>2021</b> , 42, 1181-1197	3	2
30	Effects of Expandable Graphite at Moderate and Heavy Loadings on the Thermal and Electrical Conductivity of Amorphous Polystyrene and Semicrystalline High-Density Polyethylene. <i>Applied Nano</i> , <b>2021</b> , 2, 31-45	1	2
29	A preliminary study on the physicochemical properties of pigmented Sty/nBA/MMA emulsion films: The effect of thermal ageing. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 158, 157-167	4.7	2
28	Synthesis and controlled crystallization of in situ prepared poly(butylene-2,6-naphthalate) nanocomposites. <i>CrystEngComm</i> , <b>2018</b> , 20, 3590-3600	3.3	2
27	Thermal Stability and Decomposition Mechanism of PLA Nanocomposites with Kraft Lignin and Tannin. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2



26	Molecular mobility investigation of the biobased Poly(ethylene vanillate) and Poly(propylene vanillate). <i>Polymer</i> , <b>2021</b> , 233, 124197	3.9	2
25	Comparison of maximum force to failure of 4 thoracostomy tube connecting devices. <i>Veterinary Surgery</i> , <b>2017</b> , 46, 249-254	1.7	1
24	Comparative evaluation of metallic skin staples or polypropylene sutures for primary closure of teat wounds in sheep. <i>New Zealand Veterinary Journal</i> , <b>2019</b> , 67, 234-240	1.7	1
23	Polymers as Formulation Excipients for Hot-Melt Extrusion Processing of Pharmaceuticals <b>2015</b> , 121-149		1
22	Synthesis, Properties, and Enzymatic Hydrolysis of Poly(lactic acid)--Poly(propylene adipate) Block Copolymers Prepared by Reactive Extrusion. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
21	Separation of PET and PS from PET / PS / PP plastic mixture and their use in synthesis of composite floating sorbent materials for dyes removal. <i>Journal of Chemical Technology and Biotechnology</i> ,	3.5	1
20	High-Drug-Loading Amorphous Solid Dispersions via Thermal Cross-Linking: Unraveling the Mechanisms of Stabilization. <i>Molecular Pharmaceutics</i> , <b>2021</b> , 18, 4393-4414	5.6	1
19	Integrating Elastic Tensor and PC-SAFT Modeling with Systems-Based Pharma 4.0 Simulation, to Predict Process Operations and Product Specifications of Ternary Nanocrystalline Suspensions. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	1
18	Vanillin chitosan miscible hydrogel blends and their prospects for 3D printing biomedical applications. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 192, 1266-1275	7.9	1
17	Synthesis of Dacus Pheromone, 1,7-Dioxaspiro[5.5]Undecane and Its Encapsulation in PLLA Microspheres for Their Potential Use as Controlled Release Devices. <i>Agronomy</i> , <b>2020</b> , 10, 1053	3.6	1
16	Leflunomide Loaded Chitosan Nanoparticles for the Preparation of Aliphatic Polyester Based Skin Patches. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
15	Unlocking the potential of furan-based poly(ester amide)s: an investigation of crystallization, molecular dynamics and degradation kinetics of novel poly(ester amide)s based on renewable poly(propylene furanoate). <i>Polymer Chemistry</i> ,	4.9	1
14	Potential application of low molecular weight excipients for amorphization and dissolution enhancement of carvedilol. <i>International Journal of Pharmaceutics</i> , <b>2021</b> , 608, 121033	6.5	1
13	Development of agomelatine nanocomposite formulations by wet media milling. <i>European Journal of Pharmaceutical Sciences</i> , <b>2021</b> , 166, 105979	5.1	1
12	Acrylic acid copolymers as adsorbent materials for the removal of anti-inflammatory pharmaceuticals from synthetic biomedical wastewaters. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 629, 127382	5.1	1
11	Synthesis, Properties, and Mathematical Modeling of Biodegradable Aliphatic Polyesters Based on 1,3-Propanediol and Dicarboxylic Acids73-108		1
10	Poly(vinyl pyridine) and Its Quaternized Derivatives: Understanding Their Solvation and Solid State Properties.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	1
9	ECyclodextrin Inclusion Complexes of Budesonide with Enhanced Bioavailability for COPD Treatment. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 12085	2.6	1

8	Tuning thermal properties and biodegradability of poly(isosorbide azelate) by compositional control through copolymerization with 2,5-furandicarboxylic acid. <i>Polymer Degradation and Stability</i> , <b>2022</b> , 195, 109804	4.7	o
7	Structural and Energetic Aspects of Entacapone-Theophylline-Water Cocrystal. <i>Solids</i> , <b>2022</b> , 3, 66-92	o	o
6	Towards novel lignin-based aromatic polyesters: In-depth study of the thermal degradation and crystallization of poly(propylene vanillate). <i>Thermochimica Acta</i> , <b>2022</b> , 709, 179145	2.9	o
5	On the Improved Mechanical Properties of Ball-Milled GNPs Reinforced Short Chain Branched-Polyethylene Nanocomposite: Micromechanical Modeling and Fractography Study. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9420	2.6	o
4	Unraveling the origin of aged varnishes for the proper restoration of old paintings using spectroscopic and spectrometric techniques. <i>Microchemical Journal</i> , <b>2021</b> , 168, 106467	4.8	o
3	Molecular Mobility in Nanocomposites Based on Renewable Semicrystalline Polyesters. <i>Advances in Dielectrics</i> , <b>2022</b> , 87-121	o.6	o
2	Modified Crystalline Structure of Silane-Crosslinked Polyethylene in the Proximity of Nanodiamonds. <i>Macromolecular Materials and Engineering</i> , <b>2016</b> , 301, 441-450	3.9	
1	Intravitreal Administration Effect of Adipose-Derived Mesenchymal Stromal Cells Combined with Anti-VEGF Nanocarriers, in a Pharmaceutically Induced Animal Model of Retinal Vein Occlusion.. <i>Stem Cells International</i> , <b>2022</b> , 2022, 2760147	5	