Dimitrios N Bikiaris

List of Publications by Year
in descending order

488	25,090	5876	16605
papers	citations	81 h-index	123 g-index

492	492	492	20102
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Can nanoparticles really enhance thermal stability of polymers? Part I: An overview on thermal decomposition of addition polymers. Thermochimica Acta, 2011, 523, 1-24.	1.2	380
2	Recent Modifications of Chitosan for Adsorption Applications: A Critical and Systematic Review. Marine Drugs, 2015, 13, 312-337.	2.2	359
3	Production of bio-based 2,5-furan dicarboxylate polyesters: Recent progress and critical aspects in their synthesis and thermal properties. European Polymer Journal, 2016, 83, 202-229.	2.6	359
4	Crystallization and melting behavior of three biodegradable poly(alkylene succinates). A comparative study. Polymer, 2005, 46, 12081-12092.	1.8	318
5	Crystallization kinetics and nucleation activity of filler in polypropylene/surface-treated SiO2 nanocomposites. Thermochimica Acta, 2005, 427, 117-128.	1.2	282
6	Synthesis and adsorption application of succinyl-grafted chitosan for the simultaneous removal of zinc and cationic dye from binary hazardous mixtures. Chemical Engineering Journal, 2015, 259, 438-448.	6.6	270
7	Chitosan nanoparticles loaded with dorzolamide and pramipexole. Carbohydrate Polymers, 2008, 73, 44-54.	5.1	257
8	Synthesis of poly(ethylene furandicarboxylate) polyester using monomers derived from renewable resources: thermal behavior comparison with PET and PEN. Physical Chemistry Chemical Physics, 2014, 16, 7946-7958.	1.3	247
9	Poly(lactic Acid): A Versatile Biobased Polymer for the Future with Multifunctional Propertiesâ€"From Monomer Synthesis, Polymerization Techniques and Molecular Weight Increase to PLA Applications. Polymers, 2021, 13, 1822.	2.0	233
10	Microstructure and Properties of Polypropylene/Carbon Nanotube Nanocomposites. Materials, 2010, 3, 2884-2946.	1.3	229
11	Compatibilisation effect of PP-g-MA copolymer on iPP/SiO2 nanocomposites prepared by melt mixing. European Polymer Journal, 2005, 41, 1965-1978.	2.6	223
12	Dynamic mechanical and morphological studies of isotactic polypropylene/fumed silica nanocomposites with enhanced gas barrier properties. Composites Science and Technology, 2006, 66, 2935-2944.	3.8	215
13	Can nanoparticles really enhance thermal stability of polymers? Part II: An overview on thermal decomposition of polycondensation polymers. Thermochimica Acta, 2011, 523, 25-45.	1.2	214
14	Pharmaceutical nanocrystals: production by wet milling and applications. Drug Discovery Today, 2018, 23, 534-547.	3.2	213
15	Synthesis and comparative biodegradability studies of three poly(alkylene succinate)s. Polymer Degradation and Stability, 2006, 91, 31-43.	2.7	203
16	Thermal degradation mechanism of poly(ethylene succinate) and poly(butylene succinate): Comparative study. Thermochimica Acta, 2005, 435, 142-150.	1.2	200
17	Effect of acid treated multi-walled carbon nanotubes on the mechanical, permeability, thermal properties and thermo-oxidative stability of isotactic polypropylene. Polymer Degradation and Stability, 2008, 93, 952-967.	2.7	200
18	Synthesis, Cocrystallization, and Enzymatic Degradation of Novel Poly(butylene-co-propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	196

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19	LDPE/starch blends compatibilized with PE-g-MA copolymers. Journal of Applied Polymer Science, 1998, 70, 1503-1521.	1.3	188
20	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 drugâ€“polymer interactions. European Journal of Pharmaceutics and Biopharmaceutics, 2007, 66, 334-347.	2.0	185
21	PLA nanocomposites: Effect of filler type on non-isothermal crystallization. Thermochimica Acta, 2010, 511, 129-139.	1.2	185
22	Preparation by melt mixing and characterization of isotactic polypropylene/SiO2 nanocomposites containing untreated and surface-treated nanoparticles. Journal of Applied Polymer Science, 2006, 100, 2684-2696.	1.3	182
23	Comparative study of the effect of different nanoparticles on the mechanical properties and thermal degradation mechanism of in situ prepared poly(Îµ-caprolactone) nanocomposites. Composites Science and Technology, 2007, 67, 2165-2174.	3.8	182
24	Chitosan Derivatives as Biosorbents for Basic Dyes. Langmuir, 2007, 23, 7634-7643.	1.6	179
25	Insight on the Formation of Chitosan Nanoparticles through Ionotropic Gelation with Tripolyphosphate. Molecular Pharmaceutics, 2012, 9, 2856-2862.	2.3	177
26	Polymer/Metal Organic Framework (MOF) Nanocomposites for Biomedical Applications. Molecules, 2020, 25, 185.	1.7	173
27	New approaches on the removal of pharmaceuticals from wastewaters with adsorbent materials. Journal of Molecular Liquids, 2015, 209, 87-93.	2.3	172
28	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. Polymer, 2015, 62, 28-38.	1.8	165
29	Solid dispersions, Part I: recent evolutions and future opportunities in manufacturing methods for dissolution rate enhancement of poorly water-soluble drugs. Expert Opinion on Drug Delivery, 2011, 8, 1501-1519.	2.4	164
30	Poly(itaconic acid)-Grafted Chitosan Adsorbents with Different Cross-Linking for Pb(II) and Cd(II) Uptake. Langmuir, 2014, 30, 120-131.	1.6	164
31	Optimization of chitosan and Î²-cyclodextrin molecularly imprinted polymer synthesis for dye adsorption. Carbohydrate Polymers, 2013, 91, 198-208.	5.1	159
32	Mechanical properties and viscoelastic behavior of basalt fiber-reinforced polypropylene. Journal of Applied Polymer Science, 1999, 74, 523-531.	1.3	155
33	Evaluation of polyesters from renewable resources as alternatives to the current fossil-based polymers. Phase transitions of poly(butylene 2,5-furan-dicarboxylate). Polymer, 2014, 55, 3846-3858.	1.8	155
34	Synthesis, characterization, and biodegradability of fatty-acid esters of amylose and starch. Journal of Applied Polymer Science, 1999, 74, 1440-1451.	1.3	153
35	Thermal and dynamic mechanical behavior of bionanocomposites: Fumed silica nanoparticles dispersed in poly(vinyl pyrrolidone), chitosan, and poly(vinyl alcohol). Journal of Applied Polymer Science, 2008, 110, 1739-1749.	1.3	150
36	Surface Modified Multifunctional and Stimuli Responsive Nanoparticles for Drug Targeting: Current Status and Uses. International Journal of Molecular Sciences, 2016, 17, 1440.	1.8	146

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37	Properties of fatty-acid esters of starch and their blends with LDPE. Journal of Applied Polymer Science, 1997, 65, 705-721.	1.3	140
38	Chitosan adsorbents for dye removal: a review. Polymer International, 2017, 66, 1800-1811.	1.6	140
39	Crystallization Kinetics of Biodegradable Poly(butylene succinate) under Isothermal and Non-Isothermal Conditions. Macromolecular Chemistry and Physics, 2007, 208, 1250-1264.	1.1	138
40	Removal of beta-blockers from aqueous media by adsorption onto graphene oxide. Science of the Total Environment, 2015, 537, 411-420.	3.9	135
41	Novel self-assembled coreâ€“shell nanoparticles based on crystalline amorphous moieties of aliphatic copolyesters for efficient controlled drug release. Journal of Controlled Release, 2009, 138, 177-184.	4.8	131
42	Chitin Adsorbents for Toxic Metals: A Review. International Journal of Molecular Sciences, 2017, 18, 114.	1.8	129
43	Co-Amorphous Solid Dispersions for Solubility and Absorption Improvement of Drugs: Composition, Preparation, Characterization and Formulations for Oral Delivery. Pharmaceutics, 2018, 10, 98.	2.0	129
44	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.	2.6	127
45	Physicochemical studies on solid dispersions of poorly water-soluble drugs. Thermochimica Acta, 2005, 439, 58-67.	1.2	126
46	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, 115-126.	2.0	126
47	Thermal degradation mechanism of HDPE nanocomposites containing fumed silica nanoparticles. Thermochimica Acta, 2009, 485, 65-71.	1.2	126
48	Graphene composites as dye adsorbents: Review. Chemical Engineering Research and Design, 2018, 129, 75-88.	2.7	122
49	Chain extension of polyesters PET and PBT with two new diimidodiepoxides. II. Journal of Polymer Science Part A, 1996, 34, 1337-1342.	2.5	121
50	Properties of octanoated starch and its blends with polyethylene. Carbohydrate Polymers, 1997, 34, 101-112.	5.1	115
51	Effect of different nanoparticles on HDPE UV stability. Polymer Degradation and Stability, 2011, 96, 151-163.	2.7	114
52	Porous dressings of modified chitosan with poly(2-hydroxyethyl acrylate) for topical wound delivery of levofloxacin. Carbohydrate Polymers, 2016, 143, 90-99.	5.1	112
53	Removal of dorzolamide from biomedical wastewaters with adsorption onto graphite oxide/poly(acrylic acid) grafted chitosan nanocomposite. Bioresource Technology, 2014, 152, 399-406.	4.8	110
54	Environmental friendly technology for the removal of pharmaceutical contaminants from wastewaters using modified chitosan adsorbents. Chemical Engineering Journal, 2013, 222, 248-258.	6.6	107

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55	Synthesis, characterization and biodegradability of poly(ethylene succinate)/poly(Îµ-caprolactone) block copolymers. Polymer, 2002, 43, 5405-5415.	1.8	106
56	Dissolution enhancement of flavonoids by solid dispersion in PVP and PEG matrixes: A comparative study. Journal of Applied Polymer Science, 2006, 102, 460-471.	1.3	103
57	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.	2.6	103
58	Nanocomposites of aliphatic polyesters: An overview of the effect of different nanofillers on enzymatic hydrolysis and biodegradation of polyesters. Polymer Degradation and Stability, 2013, 98, 1908-1928.	2.7	101
59	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.	2.6	100
60	Tuning the Properties of Furandicarboxylic Acid-Based Polyesters with Copolymerization: A Review. Polymers, 2020, 12, 1209.	2.0	99
61	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.	2.0	98
62	Characterization and thermal degradation mechanism of isotactic polypropylene/carbon black nanocomposites. Thermochimica Acta, 2007, 465, 6-17.	1.2	98
63	Synthesis, characterization and thermal analysis of ureaâ€“formaldehyde/nanoSiO2 resins. Thermochimica Acta, 2012, 527, 33-39.	1.2	97
64	Biocompatible Zr-based nanoscale MOFs coated with modified poly(Îµ-caprolactone) as anticancer drug carriers. International Journal of Pharmaceutics, 2016, 509, 208-218.	2.6	96
65	Chitosan and its Derivatives for Ocular Delivery Formulations: Recent Advances and Developments. Polymers, 2020, 12, 1519.	2.0	95
66	Alkyd resins derived from glycolized waste poly(ethylene terephthalate). European Polymer Journal, 2005, 41, 201-210.	2.6	94
67	Thermal degradation kinetics and decomposition mechanism of polyesters based on 2,5-furandicarboxylic acid and low molecular weight aliphatic diols. Journal of Analytical and Applied Pyrolysis, 2015, 112, 369-378.	2.6	94
68	Crystallization and Polymorphism of Poly(ethylene furanoate). Crystal Growth and Design, 2015, 15, 5505-5512.	1.4	94
69	Quantitative analysis of paracetamol polymorphs in powder mixtures by FT-Raman spectroscopy and PLS regression. Journal of Pharmaceutical and Biomedical Analysis, 2007, 43, 407-412.	1.4	93
70	Comparative study of the effect of different nanoparticles on the mechanical properties, permeability, and thermal degradation mechanism of HDPE. Journal of Applied Polymer Science, 2009, 114, 1606-1618.	1.3	93
71	Green composites prepared from aliphatic polyesters and bast fibers. Industrial Crops and Products, 2015, 68, 60-79.	2.5	92
72	Effect of molecular weight on thermal degradation mechanism of the biodegradable polyester poly(ethylene succinate). Thermochimica Acta, 2006, 440, 166-175.	1.2	91

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73	Nanomaterials and Chemical Modifications for Enhanced Key Wood Properties: A Review. Nanomaterials, 2019, 9, 607.	1.9	91
74	Correlation between Chemical and Solidâ€State Structures and Enzymatic Hydrolysis in Novel Biodegradable Polyesters. The Case of Poly(propylene alkanedicarboxylate)s. Macromolecular Bioscience, 2008, 8, 728-740.	2.1	90
75	A facile method to synthesize highâ€molecularâ€weight biobased polyesters from 2,5â€furandicarboxylic acid and longâ€chain diols. Journal of Polymer Science Part A, 2015, 53, 2617-2632.	2.5	90
76	Î²-Nucleated Polypropylene: Processing, Properties and Nanocomposites. Polymer Reviews, 2015, 55, 596-629.	5.3	88
77	Use of silane agents and poly(propylene-g-maleic anhydride) copolymer as adhesion promoters in glass fiber/polypropylene composites. Journal of Applied Polymer Science, 2001, 81, 701-709.	1.3	87
78	Comprehensive investigation of a wide range of pharmaceuticals and personal care products in urban and hospital wastewaters in Greece. Science of the Total Environment, 2019, 694, 133565.	3.9	87
79	Chitosan-g-PEG nanoparticles ionically crosslinked with poly(glutamic acid) and tripolyphosphate as protein delivery systems. International Journal of Pharmaceutics, 2012, 430, 318-327.	2.6	86
80	Poly(ethylene furanoate- co -ethylene terephthalate) biobased copolymers: Synthesis, thermal properties and cocrystallization behavior. European Polymer Journal, 2017, 89, 349-366.	2.6	86
81	Glycolytic depolymerization of PET waste in a microwave reactor. Journal of Applied Polymer Science, 2010, 118, 3066-3073.	1.3	85
82	Interfacial interactions, crystallization and molecular mobility in nanocomposites of Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38 2019, 166, 1-12.	1.8	83
83	An extensive non-destructive and micro-spectroscopic study of two post-Byzantine overpainted icons of the 16th century. Journal of Raman Spectroscopy, 2002, 33, 807-814.	1.2	82
84	Chemical Recycling of PET by Glycolysis: Polymerization and Characterization of the Dimethacrylated Glycolysate. Macromolecular Materials and Engineering, 2006, 291, 1338-1347.	1.7	82
85	HDPE/Cu-nanofiber nanocomposites with enhanced antibacterial and oxygen barrier properties appropriate for food packaging applications. Materials Letters, 2013, 93, 1-4.	1.3	80
86	Preparation of molecularly imprinted solid-phase microextraction fiber for the selective removal and extraction of the antiviral drug abacavir in environmental and biological matrices. Analytica Chimica Acta, 2016, 913, 63-75.	2.6	80
87	Reactive modification of polyethylene terephthalate with polyepoxides. Polymer Engineering and Science, 2001, 41, 643-655.	1.5	79
88	Study of various catalysts in the synthesis of poly(propylene terephthalate) and mathematical modeling of the esterification reaction. Polymer, 2003, 44, 931-942.	1.8	79
89	Aging studies of light cured dimethacrylate-based dental resins and a resin composite in water or ethanol/water. Dental Materials, 2007, 23, 1142-1149.	1.6	79
90	Panselinosâ€™ Byzantine wall paintings in the Protaton Church, Mount Athos, Greece: a technical examination. Journal of Cultural Heritage, 2000, 1, 91-110.	1.5	78

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91	Recent Advances in Nanocomposite Materials of Graphene Derivatives with Polysaccharides. Materials, 2015, 8, 652-683.	1.3	77
92	Recommendations for replacing PET on packaging, fiber, and film materials with biobased counterparts. Green Chemistry, 2021, 23, 8795-8820.	4.6	77
93	Poly(Lactic Acid)-Based Microparticles for Drug Delivery Applications: An Overview of Recent Advances. Pharmaceutics, 2022, 14, 359.	2.0	77
94	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. AAPS Journal, 2007, 9, E361-E370.	2.2	76
95	Chitosan derivatives as effective nanocarriers for ocular release of timolol drug. International Journal of Pharmaceutics, 2015, 495, 249-264.	2.6	76
96	Effect of catalyst type on molecular weight increase and coloration of poly(ethylene furanoate) biobased polyester during melt polycondensation. Polymer Chemistry, 2017, 8, 6895-6908.	1.9	76
97	Novel Poly(propylene terephthalate-co-succinate) Random Copolymers:â€‰ Synthesis, Solid Structure, and Enzymatic Degradation Study. Macromolecules, 2008, 41, 1675-1684.	2.2	74
98	Hydrolytic Depolymerization of PET in a Microwave Reactor. Macromolecular Materials and Engineering, 2010, 295, 575-584.	1.7	74
99	Do poly(lactic acid) microplastics instigate a threat? A perception for their dynamic towards environmental pollution and toxicity. Science of the Total Environment, 2022, 832, 155014.	3.9	74
100	Synthesis of poly(alkylene succinate) biodegradable polyesters, Part II: Mathematical modelling of the polycondensation reaction. Polymer, 2008, 49, 3677-3685.	1.8	73
101	In situ prepared PET nanocomposites: Effect of organically modified montmorillonite and fumed silica nanoparticles on PET physical properties and thermal degradation kinetics. Thermochimica Acta, 2010, 500, 21-29.	1.2	73
102	Fast Crystallization and Melting Behavior of a Long-Spaced Aliphatic Furandicarboxylate Biobased Polyester, Poly(dodecylene 2,5-furanoate). Industrial & Engineering Chemistry Research, 2016, 55, 5315-5326.	1.8	73
103	Evaluation of the formed interface in biodegradable poly(l-lactic acid)/graphene oxide nanocomposites and the effect of nanofillers on mechanical and thermal properties. Thermochimica Acta, 2014, 597, 48-57.	1.2	71
104	Effect of physical state and particle size distribution on dissolution enhancement of nimodipine/PEG solid dispersions prepared by melt mixing and solvent evaporation. AAPS Journal, 2006, 8, E623-E631.	2.2	70
105	Synthesis of poly(alkylene succinate) biodegradable polyesters I. Mathematical modelling of the esterification reaction. Polymer, 2006, 47, 4851-4860.	1.8	70
106	Thermal and structural response of in situ prepared biobased poly(ethylene 2,5-furan dicarboxylate) nanocomposites. Polymer, 2016, 103, 288-298.	1.8	70
107	Evaluating the effects of crystallinity in new biocompatible polyester nanocarriers on drug release behavior. International Journal of Nanomedicine, 2011, 6, 3021.	3.3	69
108	Controlled release of 5-fluorouracil from microporous zeolites. Nanomedicine: Nanotechnology, Biology, and Medicine, 2014, 10, 197-205.	1.7	69

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109	Synthesis and characterisation of branched and partially crosslinked poly(ethylene terephthalate). Polymer International, 2003, 52, 1230-1239.	1.6	68
110	Blends of polymers with similar glass transition temperatures: A DMTA and DSC study. Journal of Applied Polymer Science, 2004, 93, 726-735.	1.3	68
111	Low-Swelling Chitosan Derivatives as Biosorbents for Basic Dyes. Langmuir, 2008, 24, 4791-4799.	1.6	68
112	Rigid amorphous fraction and segmental dynamics in nanocomposites based on poly(lâ€“lactic acid) and nano-inclusions of 1â€“3D geometry studied by thermal and dielectric techniques. European Polymer Journal, 2016, 82, 16-34.	2.6	68
113	Removal of antibiotics in aqueous media by using new synthesized bio-based poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	4.2	68
114	Non-Isothermal Crystallisation Kinetics of In Situ Prepared Poly(É›-caprolactone)/Surface-Treated SiO2 Nanocomposites. Macromolecular Chemistry and Physics, 2007, 208, 364-376.	1.1	67
115	New poly(pentylene furanoate) and poly(heptylene furanoate) sustainable polyesters from diols with odd methylene groups. Materials Letters, 2016, 178, 64-67.	1.3	67
116	Spray Drying for the Preparation of Nanoparticle-Based Drug Formulations as Dry Powders for Inhalation. Processes, 2020, 8, 788.	1.3	67
117	Identification of rheological and structural characteristics of foamable poly(ethylene terephthalate) by reactive extrusion. Polymer International, 2004, 53, 1161-1168.	1.6	66
118	Felodipine nanodispersions as active core for predictable pulsatile chronotherapeutics using PVP/HPMC blends as coating layer. International Journal of Pharmaceutics, 2006, 313, 189-197.	2.6	65
119	Miscibility study of carrageenan blends and evaluation of their effectiveness as sustained release carriers. Carbohydrate Polymers, 2010, 79, 1157-1167.	5.1	65
120	Kinetics of nucleation and crystallization in poly(butylene succinate) nanocomposites. Polymer, 2014, 55, 6725-6734.	1.8	65
121	Formulation and In-Vitro Characterization of Chitosan-Nanoparticles Loaded with the Iron Chelator Deferoxamine Mesylate (DFO). Pharmaceutics, 2020, 12, 238.	2.0	65
122	Thermomechanical analysis of chain-extended PET and PBT. Journal of Applied Polymer Science, 1996, 60, 55-61.	1.3	64
123	Solid dispersions, Part II: new strategies in manufacturing methods for dissolution rate enhancement of poorly water-soluble drugs. Expert Opinion on Drug Delivery, 2011, 8, 1663-1680.	2.4	63
124	N-(2-Carboxybenzyl) grafted chitosan as adsorptive agent for simultaneous removal of positively and negatively charged toxic metal ions. Journal of Hazardous Materials, 2013, 244-245, 29-38.	6.5	63
125	Novel electrospun nanofibrous matrices prepared from poly(lactic acid)/poly(butylene adipate) blends for controlled release formulations of an anti-rheumatoid agent. European Journal of Pharmaceutical Sciences, 2016, 88, 12-25.	1.9	63
126	Biobased poly(ethylene furanoate-co-ethylene succinate) copolyesters: solid state structure, melting point depression and biodegradability. RSC Advances, 2016, 6, 84003-84015.	1.7	63

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127	Mechanical properties and biodegradability of LDPE blends with fatty-acid esters of amylose and starch. Journal of Applied Polymer Science, 1999, 71, 1089-1100.	1.3	62
128	Thermal analysis study of flavonoid solid dispersions having enhanced solubility. Journal of Thermal Analysis and Calorimetry, 2006, 83, 283-290.	2.0	62
129	Nanocomposites of isotactic polypropylene with carbon nanoparticles exhibiting enhanced stiffness, thermal stability and gas barrier properties. Composites Science and Technology, 2008, 68, 933-943.	3.8	62
130	Nanoencapsulation of a water soluble drug in biocompatible polyesters. Effect of polyesters melting point and glass transition temperature on drug release behavior. European Journal of Pharmaceutical Sciences, 2010, 41, 636-643.	1.9	62
131	Aminolytic depolymerization of poly(ethylene terephthalate) waste in a microwave reactor. Polymer International, 2011, 60, 500-506.	1.6	62
132	Optimization of formulation and process parameters for the production of carvedilol nanosuspension by wet media milling. International Journal of Pharmaceutics, 2018, 540, 150-161.	2.6	62
133	Preparation and characterization of LDPE/starch blends containing ethylene/vinyl acetate copolymer as compatibilizer. Polymer Engineering and Science, 1998, 38, 954-964.	1.5	61
134	Biocompatible Synthetic Polymers for Tissue Engineering Purposes. Biomacromolecules, 2022, 23, 1841-1863.	2.6	61
135	Compatibility of low-density polyethylene/poly(ethylene-co-vinyl acetate) binary blends prepared by melt mixing. Journal of Applied Polymer Science, 2003, 90, 841-852.	1.3	60
136	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. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 82, 175-186.	2.0	60
137	Sustainable, eco-friendly polyesters synthesized from renewable resources: preparation and thermal characteristics of poly(dimethyl-propylene furanoate). Polymer Chemistry, 2015, 6, 8284-8296.	1.9	60
138	Effect of graphene nanoplatelets diameter on non-isothermal crystallization kinetics and melting behavior of high density polyethylene nanocomposites. Thermochimica Acta, 2016, 643, 94-103.	1.2	60
139	Synthesis and characterization of novel poly(ethylene furanoate-co-adipate) random copolyesters with enhanced biodegradability. Polymer Degradation and Stability, 2018, 156, 32-42.	2.7	60
140	Effectively designed molecularly imprinted polymers for selective isolation of the antidiabetic drug metformin and its transformation product guanylurea from aqueous media. Analytica Chimica Acta, 2015, 866, 27-40.	2.6	59
141	Thermal degradation of biobased polyesters: Kinetics and decomposition mechanism of polyesters from 2,5-furandicarboxylic acid and long-chain aliphatic diols. Journal of Analytical and Applied Pyrolysis, 2016, 117, 162-175.	2.6	59
142	Effect of catalyst type on recyclability and decomposition mechanism of poly(ethylene furanoate) biobased polyester. Journal of Analytical and Applied Pyrolysis, 2017, 126, 357-370.	2.6	59
143	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. Composites Science and Technology, 2018, 156, 95-102.	3.8	59
144	In situ compatibilization of polypropyleneâ€“polyethylene blends: a thermomechanical and spectroscopic study. Polymer, 1998, 39, 6807-6817.	1.8	58

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145	Photocatalytical removal of fluorouracil using TiO2-P25 and N/S doped TiO2 catalysts: A kinetic and mechanistic study. Science of the Total Environment, 2017, 578, 257-267.	3.9	58
146	Adverse effects polystyrene microplastics exert on zebrafish heartÂâ€“ Molecular to individual level. Journal of Hazardous Materials, 2021, 416, 125969.	6.5	58
147	Synthesis, properties and thermal behavior of poly(decylene-2,5-furanoate): a biobased polyester from 2,5-furan dicarboxylic acid. RSC Advances, 2015, 5, 74592-74604.	1.7	57
148	Polyglycerol Hyperbranched Polyesters: Synthesis, Properties and Pharmaceutical and Biomedical Applications. International Journal of Molecular Sciences, 2019, 20, 6210.	1.8	57
149	Effect of molecular weight on the cold-crystallization of biodegradable poly(ethylene succinate). Thermochimica Acta, 2007, 457, 41-54.	1.2	56
150	Effect of evolved interactions in poly(butylene succinate)/fumed silica biodegradable in situ prepared nanocomposites on molecular weight, material properties, and biodegradability. Journal of Applied Polymer Science, 2011, 119, 2010-2024.	1.3	56
151	Effect of Conditions of Preparation on the Size and Encapsulation Properties of PLGA-mPEG Nanoparticles of Cisplatin. Drug Delivery, 2007, 14, 371-380.	2.5	54
152	Modified chitosan coated mesoporous strontium hydroxyapatite nanorods as drug carriers. Journal of Materials Chemistry B, 2015, 3, 5991-6000.	2.9	54
153	Solid-state polycondensation of poly(ethylene terephthalate) recycled from postconsumer soft-drink bottles. II. Journal of Applied Polymer Science, 1995, 56, 405-410.	1.3	53
154	Processing and characterization of LDPE/starch products. Journal of Applied Polymer Science, 2001, 79, 2548-2557.	1.3	53
155	Reinforcement of a PMMA resin for fixed interim prostheses with nanodiamonds. Dental Materials Journal, 2011, 30, 222-231.	0.8	53
156	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). Materials, 2017, 10, 801.	1.3	53
157	Glass transition and segmental dynamics in poly(l-lactic acid)/graphene oxide nanocomposites. Thermochimica Acta, 2015, 617, 44-53.	1.2	52
158	Chain extension of polyesters PET and PBT with N,Nâ€²-bis (glycidyl ester) pyromellitimides. I. Journal of Polymer Science Part A, 1995, 33, 1705-1714.	2.5	51
159	Miscibility and enzymatic degradation studies of poly(Îµ-caprolactone)/poly(propylene succinate) blends. European Polymer Journal, 2007, 43, 2491-2503.	2.6	51
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