

# Dimitris S Achilias

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

160  
papers

6,451  
citations

47  
h-index

74  
g-index

170  
ext. papers

7,277  
ext. citations

3.9  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
160	Catalytic pyrolysis of polymers with brominated flame-retardants originating in waste electric and electronic equipment (WEEE) using various catalysts. <i>Sustainable Chemistry and Pharmacy</i> , <b>2022</b> , 26, 100612	2.9	1
159	Polymerisation Kinetics on FT-IR and Colorimetric Changes under UV Irradiation for a Commercial Polycyanoacrylate Adhesive, Addressed to Glass Restoration. <i>Coatings</i> , <b>2022</b> , 12, 490	2.9	
158	Effect of Silica Nanoparticles Silanized by Functional/Functional or Functional/Non-Functional Silanes on the Physicochemical and Mechanical Properties of Dental Nanocomposite Resins. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 159	2.6	1
157	ICTAC Kinetics Committee recommendations for analysis of thermal polymerization kinetics. <i>Thermochimica Acta</i> , <b>2022</b> , 179243	2.9	5
156	Thermal Analysis in Polymer Recycling <b>2022</b> , 485-508		
155	Novel trends in the thermo-chemical recycling of plastics from WEEE containing brominated flame retardants. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 28, 59190-59213	5.1	11
154	Development of Bio-Composites with Enhanced Antioxidant Activity Based on Poly(lactic acid) with Thymol, Carvacrol, Limonene, or Cinnamaldehyde for Active Food Packaging. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
153	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
152	Synthesis of Novel Dental Nanocomposite Resins by Incorporating Polymerizable, Quaternary Ammonium Silane-Modified Silica Nanoparticles. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
151	Nitroxide-mediated polymerization of styrene and limonene in the framework of synthesis of potentially functional polymers using naturally occurring terpenes. <i>Polymer Bulletin</i> , <b>2021</b> , 78, 4609-4628	2.4	3
150	TEOS-Based Superhydrophobic Coating for the Protection of Stone-Built Cultural Heritage. <i>Coatings</i> , <b>2021</b> , 11, 135	2.9	13
149	Synthesis of D-Limonene Loaded Polymeric Nanoparticles with Enhanced Antimicrobial Properties for Potential Application in Food Packaging. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6
148	Effect of Na- and Organo-Modified Montmorillonite/Essential Oil Nanohybrids on the Kinetics of the In Situ Radical Polymerization of Styrene. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
147	Effect of brominated flame retardant on the pyrolysis products of polymers originating in WEEE. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	2
146	State-Of-The-Art Quantification of Polymer Solution Viscosity for Plastic Waste Recycling. <i>ChemSusChem</i> , <b>2021</b> , 14, 4071-4102	8.3	4
145	Fluorosilane Water-Repellent Coating for the Protection of Marble, Wood and Other Materials. <i>Heritage</i> , <b>2021</b> , 4, 2668-2675	1.6	0
144	Chemical Recycling of PET in the Presence of the Bio-Based Polymers, PLA, PHB and PEF: A Review. <i>Sustainability</i> , <b>2021</b> , 13, 10528	3.6	6

143	Recycling of the Engineering Plastics PC, HIPS, ABS and PA, Their Blends and Composites. <i>Composites Science and Technology</i> , <b>2021</b> , 43-68		0
142	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
141	Effect of the side ethylene glycol and hydroxyl groups on the polymerization kinetics of oligo(ethylene glycol methacrylates). An experimental and modeling investigation. <i>Polymer Chemistry</i> , <b>2020</b> , 11, 3732-3746	4.9	3
140	Pyrolytic degradation kinetics of HIPS, ABS, PC and their blends with PP and PVC. <i>Thermochimica Acta</i> , <b>2020</b> , 690, 178705	2.9	4
139	Sustainable Plastics from Biomass: Blends of Polyesters Based on 2,5-Furandicarboxylic Acid. <i>Polymers</i> , <b>2020</b> , 12,	4.5	11
138	Depolymerization of PLA by Phase Transfer Catalysed Alkaline Hydrolysis in a Microwave Reactor. <i>Journal of Polymers and the Environment</i> , <b>2020</b> , 28, 1664-1672	4.5	6
137	Polymer packaging waste recycling: study of the pyrolysis of two blends via TGA. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 142, 1891-1895	4.1	1
136	Biobased Engineering Thermoplastics: Poly(butylene 2,5-furandicarboxylate) Blends. <i>Polymers</i> , <b>2019</b> , 11,	4.5	8
135	Effect of Graphene oxide or Functionalized Graphene Oxide on the Copolymerization Kinetics of Styrene/n-butyl Methacrylate. <i>Polymers</i> , <b>2019</b> , 11,	4.5	4
134	Exploring Next-Generation Engineering Bioplastics: Poly(alkylene furanoate)/Poly(alkylene terephthalate) (PAF/PAT) Blends. <i>Polymers</i> , <b>2019</b> , 11,	4.5	26
133	Synthesis and Characterization of Dental Nanocomposite Resins Filled with Different Clay Nanoparticles. <i>Polymers</i> , <b>2019</b> , 11,	4.5	25
132	Kinetic analysis of thermal and catalytic degradation of polymers found in waste electric and electronic equipment. <i>Thermochimica Acta</i> , <b>2019</b> , 675, 69-76	2.9	12
131	Solid-State Polymerization of Poly(Ethylene Furanoate) Biobased Polyester, III: Extended Study on Effect of Catalyst Type on Molecular Weight Increase. <i>Polymers</i> , <b>2019</b> , 11,	4.5	15
130	Pyrolytic degradation of common polymers present in packaging materials. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 138, 2683-2689	4.1	7
129	Synthesis and Characterization of Novel Organomodified Nanoclays for Application in Dental Materials. <i>Current Nanoscience</i> , <b>2019</b> , >15, 512-524	1.4	4
128	Pyrolysis mechanism and thermal degradation kinetics of poly(bisphenol A carbonate)-based polymers originating in waste electric and electronic equipment. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 132, 123-133	6	34
127	Use of asphaltene filler to improve low-density polyethylene properties. <i>Petroleum Science and Technology</i> , <b>2018</b> , 36, 756-764	1.4	10
126	Polymerization Kinetics of n-Butyl Methacrylate in the Presence of Graphene Oxide Prepared by Two Different Oxidation Methods with or without Functionalization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 2449-2460	3.9	6

125	Green Synthesis of Silver Nanoparticles and Study of Their Antimicrobial Properties. <i>Journal of Polymers and the Environment</i> , <b>2018</b> , 26, 423-433	4.5	43
124	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
123	Thermal Degradation Kinetics and Viscoelastic Behavior of Poly(Methyl Methacrylate)/Organomodified Montmorillonite Nanocomposites Prepared via In Situ Bulk Radical Polymerization. <i>Polymers</i> , <b>2018</b> , 10,	4.5	25
122	Investigation of radical polymerization kinetics of poly(ethylene glycol) methacrylate hydrogels via DSC and mechanistic or isoconversional models. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 134, 1307-1315	4.1	3
121	Effect of graphene oxide on the kinetics of the radical polymerization of styrene. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 27517-27525	1.4	5
120	Effect of Natural Macromolecule Filler on the Properties of High-Density Polyethylene (HDPE). <i>Macromolecular Symposia</i> , <b>2018</b> , 380, 1800072	0.8	6
119	An experimental and theoretical study of butyl methacrylate in situ radical polymerization kinetics in the presence of graphene oxide nanoadditive. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 1433-1441	2.5	13
118	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
117	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
116	In cell Biotinylation and immobilization of hBMP-2 (human Bone Morphogenetic Protein 2) on polymeric surfaces. <i>Biochemical Engineering Journal</i> , <b>2017</b> , 123, 1-12	4.2	2
115	Thermal degradation characteristics and products obtained after pyrolysis of specific polymers found in Waste Electrical and Electronic Equipment. <i>Frontiers of Environmental Science and Engineering</i> , <b>2017</b> , 11, 1	5.8	19
114	A novel method for the preparation of inorganic and organo-modified montmorillonite essential oil hybrids. <i>Applied Clay Science</i> , <b>2017</b> , 146, 362-370	5.2	34
113	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
112	Effect of Graphene Oxide on the Reaction Kinetics of Methyl Methacrylate In Situ Radical Polymerization via the Bulk or Solution Technique. <i>Polymers</i> , <b>2017</b> , 9,	4.5	14
111	Solid-State Polymerization of Poly(ethylene furanoate) Biobased Polyester, I: Effect of Catalyst Type on Molecular Weight Increase. <i>Polymers</i> , <b>2017</b> , 9,	4.5	26
110	Polymerization Kinetics of Poly(2-Hydroxyethyl Methacrylate) Hydrogels and Nanocomposite Materials. <i>Processes</i> , <b>2017</b> , 5, 21	2.9	25
109	Bulk Free Radical Polymerization of Methyl Methacrylate and Vinyl Acetate: A Comparative Study. <i>Macromolecular Reaction Engineering</i> , <b>2016</b> , 10, 577-587	1.5	14
108	Toward the development of a mathematical model for the bulk in situ radical polymerization of methyl methacrylate in the presence of nano-additives. <i>Canadian Journal of Chemical Engineering</i> , <b>2016</b> , 94, 1783-1791	2.3	9

107	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
106	Acetaldehyde contamination of water, alcoholic, and non-alcoholic beverages stored in glass or plastic bottles. <i>Toxicological and Environmental Chemistry</i> , <b>2016</b> , 98, 1183-1190	1.4	6
105	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
104	Synthesis and characterization of poly(2-hydroxyethyl methacrylate)/silver hydrogel nanocomposites prepared via in situ radical polymerization. <i>Thermochimica Acta</i> , <b>2016</b> , 643, 53-64	2.9	20
103	Effect of graphene oxide and its modification on the microstructure, thermal properties and enzymatic hydrolysis of poly(ethylene succinate) nanocomposites. <i>Thermochimica Acta</i> , <b>2015</b> , 614, 116-128	2.9	16
102	Synthesis, characterization and reaction kinetics of PMMA/silver nanocomposites prepared via in situ radical polymerization. <i>European Polymer Journal</i> , <b>2015</b> , 72, 256-269	5.2	30
101	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
100	Dental light-cured nanocomposites based on a dimethacrylate matrix: Thermal degradation and isoconversional kinetic analysis in N <sub>2</sub> atmosphere. <i>Thermochimica Acta</i> , <b>2015</b> , 599, 63-72	2.9	13
99	Chemical and Thermochemical Recycling of Polymers from Waste Electrical and Electronic Equipment <b>2015</b> ,		5
98	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
97	Investigation of the radical polymerization kinetics using DSC and mechanistic or isoconversional methods. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2014</b> , 116, 1379-1386	4.1	34
96	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
95	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
94	Pyrolysis and catalytic pyrolysis as a recycling method of waste CDs originating from polycarbonate and HIPS. <i>Waste Management</i> , <b>2014</b> , 34, 2487-93	8.6	30
93	Evaluating the Role of Nanomontmorillonite in Bulk in Situ Radical Polymerization Kinetics of Butyl Methacrylate through a Simulation Model. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 11303-11311	3.9	13
92	Nanocomposites of poly(3-hydroxybutyrate)/organomodified montmorillonite: Effect of the nanofiller on the polymer's biodegradation. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 132, n/a-n/a	2.9	1
91	Catalytic and thermal pyrolysis of polycarbonate in a fixed-bed reactor: The effect of catalysts on products yields and composition. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 110, 482-491	4.7	47
90	Biopolyester-based nanocomposites: Structural, thermo-mechanical and biocompatibility characteristics of poly(3-hydroxybutyrate)/montmorillonite clay nanohybrids. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 132, n/a-n/a	2.9	4

89	Polymer Degradation Under Microwave Irradiation. <i>Advances in Polymer Science</i> , <b>2014</b> , 309-346	1.3	5
88	A Simple Route for Purifying Extracellular Poly(3-hydroxybutyrate)-depolymerase from <i>Penicillium pinophilum</i> . <i>Enzyme Research</i> , <b>2014</b> , 2014, 159809	2.4	11
87	Effect of organomodified clay on the reaction kinetics, properties and thermal degradation of nanocomposites based on poly(styrene-co-ethyl methacrylate). <i>Polymer International</i> , <b>2014</b> , 63, 766-777	3.3	11
86	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
85	Chemical Recycling of Polycarbonate Based Wastes Using Alkaline Hydrolysis Under Microwave Irradiation. <i>Waste and Biomass Valorization</i> , <b>2013</b> , 4, 3-7	3.2	40
84	Recent Advances in Polycarbonate Recycling: A Review of Degradation Methods and Their Mechanisms. <i>Waste and Biomass Valorization</i> , <b>2013</b> , 4, 9-21	3.2	93
83	Tensile bond characteristics between composite resin and resin-modified glass-ionomer restoratives used in the open-sandwich technique. <i>European Archives of Paediatric Dentistry: Official Journal of the European Academy of Paediatric Dentistry</i> , <b>2013</b> , 14, 239-45	2.7	9
82	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
81	Synthesis and characterization of novel nanocomposite materials based on poly(styrene-co-butyl methacrylate) copolymers and organomodified clay. <i>European Polymer Journal</i> , <b>2013</b> , 49, 353-365	5.2	21
80	Role of Polylimonene as a Bio-Based Additive in Thermal Oxidation of High Impact Polystyrene. <i>Macromolecular Symposia</i> , <b>2013</b> , 331-332, 173-180	0.8	3
79	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
78	Polymerization Kinetics and Thermal Degradation of Poly(2-hydroxyethyl methacrylate) / Organo-Modified Montmorillonite Nanocomposites Prepared by In Situ Bulk Polymerization. <i>Macromolecular Symposia</i> , <b>2013</b> , 331-332, 166-172	0.8	6
77	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
76	Effect of the type of organic modifier on the polymerization kinetics and the properties of poly(methyl methacrylate)/organomodified montmorillonite nanocomposites. <i>European Polymer Journal</i> , <b>2012</b> , 48, 240-251	5.2	51
75	Environmentally friendly chemical recycling of poly(bisphenol-A carbonate) through phase transfer-catalysed alkaline hydrolysis under microwave irradiation. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 241-242, 137-45	12.8	30
74	Recycling of poly(ethylene terephthalate) waste through methanolic pyrolysis in a microwave reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2012</b> , 98, 214-220	6	46
73	Cure Kinetics Study of Two Epoxy Systems with Fourier Transform Infrared Spectroscopy (FTIR) and Differential Scanning Calorimetry (DSC). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2012</b> , 49, 630-638	2.2	52
72	Migration of styrene from plastic packaging based on polystyrene into food simulants. <i>Polymer International</i> , <b>2012</b> , 61, 141-148	3.3	34



71	Polymerization kinetics and thermal properties of poly(alkyl methacrylate)/organomodified montmorillonite nanocomposites. <i>Polymer International</i> , <b>2012</b> , 61, 1510-1518	3.3	17
70	Synthesis and Characterization of PMMA/Organomodified Montmorillonite Nanocomposites Prepared by in Situ Bulk Polymerization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 571-579	3.8	77
69	Development of a comprehensive mathematical model for free radical suspension polymerization of methyl methacrylate. <i>Polymer Engineering and Science</i> , <b>2011</b> , 51, 670-678	2.3	2
68	Aminolytic depolymerization of poly(ethylene terephthalate) waste in a microwave reactor. <i>Polymer International</i> , <b>2011</b> , 60, 500-506	3.3	50
67	Isoconversional Glass Transition Kinetics and Fragility Determination of Poly[(ethylene 2,6-naphthalate)-co-(butylene 2,6-naphthalate)] Random Copolymers. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 730-736	2.6	7
66	Thermal degradation kinetics and isoconversional analysis of biodegradable poly(3-hydroxybutyrate)/organomodified montmorillonite nanocomposites. <i>Thermochimica Acta</i> , <b>2011</b> , 514, 58-66	2.9	33
65	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
64	Thermal degradation and isoconversional kinetic analysis of light-cured dimethacrylate copolymers. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2010</b> , 99, 917-923	4.1	14
63	PMMA/organomodified montmorillonite nanocomposites prepared by in situ bulk polymerization. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2010</b> , 102, 451-460	4.1	36
62	Modeling of diffusion-controlled reactions in free radical solution and bulk polymerization: Model validation by DSC experiments. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 116, NA-NA	2.9	9
61	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
60	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
59	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
58	Hydrolytic Depolymerization of PET in a Microwave Reactor. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 575-584	3.9	53
57	Estimation of thermal transitions in poly(ethylene naphthalate): Experiments and modeling using isoconversional methods. <i>Polymer</i> , <b>2010</b> , 51, 2565-2575	3.9	34
56	PLA nanocomposites: Effect of filler type on non-isothermal crystallization. <i>Thermochimica Acta</i> , <b>2010</b> , 511, 129-139	2.9	166
55	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
54	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

53	Modeling gel effect in branched polymer systems: Free-radical solution homopolymerization of vinyl acetate. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 111, 2171-2185	2.9	31
52	Chemical recycling of polymers from Waste Electric and Electronic Equipment. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 212-221	2.9	64
51	Recycling of polymers from plastic packaging materials using the dissolution-precipitation technique. <i>Polymer Bulletin</i> , <b>2009</b> , 63, 449-465	2.4	66
50	Copolymerization kinetics of dental dimethacrylate resins initiated by a benzoyl peroxide/amine redox system. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 515-524	2.9	29
49	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
48	Water sorption isotherms and glass transition temperature of spray dried tomato pulp. <i>Journal of Food Engineering</i> , <b>2008</b> , 85, 73-83	6	222
47	Thermal degradation of light-cured dimethacrylate resins: Part I. Isoconversional kinetic analysis. <i>Thermochimica Acta</i> , <b>2008</b> , 472, 74-83	2.9	50
46	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
45	Sorption kinetics of ethanol/water solution by dimethacrylate-based dental resins and resin composites. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2007</b> , 81, 207-18	3.5	49
44	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
43	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
42	Chemical Recycling of Poly(ethylene terephthalate). <i>Macromolecular Materials and Engineering</i> , <b>2007</b> , 292, 128-146	3.9	217
41	Chemical Recycling of Polystyrene by Pyrolysis: Potential Use of the Liquid Product for the Reproduction of Polymer. <i>Macromolecular Materials and Engineering</i> , <b>2007</b> , 292, 923-934	3.9	80
40	A Review of Modeling of Diffusion Controlled Polymerization Reactions. <i>Macromolecular Theory and Simulations</i> , <b>2007</b> , 16, 319-347	1.5	176
39	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
38	Chemical recycling of poly(methyl methacrylate) by pyrolysis. Potential use of the liquid fraction as a raw material for the reproduction of the polymer. <i>European Polymer Journal</i> , <b>2007</b> , 43, 2564-2575	5.2	61
37	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
36	Chemical recycling of plastic wastes made from polyethylene (LDPE and HDPE) and polypropylene (PP). <i>Journal of Hazardous Materials</i> , <b>2007</b> , 149, 536-42	12.8	387



35	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
34	Reactivity of Benzoyl Peroxide/Amine System as an Initiator for the Free Radical Polymerization of Dental and Orthopaedic Dimethacrylate Monomers: Effect of the Amine and Monomer Chemical Structure. <i>Macromolecules</i> , <b>2006</b> , 39, 2072-2080	5.5	75
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1	Synthesis, Properties, and Mathematical Modeling of Biodegradable Aliphatic Polyesters Based on 1,3-Propanediol and Dicarboxylic Acids		73-108 1