

Dimitris S Achilias

List of Publications by Year in descending order

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163
papers

8,333
citations

36203

51
h-index

54797

84
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170
all docs

170
docs citations

170
times ranked

6904
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical recycling of plastic wastes made from polyethylene (LDPE and HDPE) and polypropylene (PP). <i>Journal of Hazardous Materials</i> , 2007, 149, 536-542.	6.5	522
2	Crystallization kinetics and nucleation activity of filler in polypropylene/surface-treated SiO ₂ nanocomposites. <i>Thermochimica Acta</i> , 2005, 427, 117-128.	1.2	282
3	Chemical Recycling of Poly(ethylene terephthalate). <i>Macromolecular Materials and Engineering</i> , 2007, 292, 128-146.	1.7	275
4	Water sorption isotherms and glass transition temperature of spray dried tomato pulp. <i>Journal of Food Engineering</i> , 2008, 85, 73-83.	2.7	269
5	Development of a general mathematical framework for modeling diffusion-controlled free-radical polymerization reactions. <i>Macromolecules</i> , 1992, 25, 3739-3750.	2.2	249
6	A Review of Modeling of Diffusion Controlled Polymerization Reactions. <i>Macromolecular Theory and Simulations</i> , 2007, 16, 319-347.	0.6	214
7	Synthesis and comparative biodegradability studies of three poly(alkylene succinate)s. <i>Polymer Degradation and Stability</i> , 2006, 91, 31-43.	2.7	203
8	Elution study of unreacted Bis-GMA, TEGDMA, UDMA, and Bis-EMA from light-cured dental resins and resin composites using HPLC. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 74B, 617-626.	1.6	195
9	PLA nanocomposites: Effect of filler type on non-isothermal crystallization. <i>Thermochimica Acta</i> , 2010, 511, 129-139.	1.2	185
10	Poly(ethylene terephthalate) recycling and recovery of pure terephthalic acid by alkaline hydrolysis. <i>Advances in Polymer Technology</i> , 2002, 21, 250-259.	0.8	178
11	Water sorption characteristics of light-cured dental resins and composites based on Bis-EMA/PCDMA. <i>Biomaterials</i> , 2004, 25, 367-376.	5.7	146
12	Recent Advances in Polycarbonate Recycling: A Review of Degradation Methods and Their Mechanisms. <i>Waste and Biomass Valorization</i> , 2013, 4, 9-21.	1.8	139
13	Crystallization Kinetics of Biodegradable Poly(butylene succinate) under Isothermal and Non-Isothermal Conditions. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1250-1264.	1.1	138
14	Chemical Recycling of Polystyrene by Pyrolysis: Potential Use of the Liquid Product for the Reproduction of Polymer. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 923-934.	1.7	114
15	The Chemical Recycling of PET in the Framework of Sustainable Development. <i>Water, Air and Soil Pollution</i> , 2004, 4, 385-396.	0.8	113
16	Recycling of polymers from plastic packaging materials using the dissolution-precipitation technique. <i>Polymer Bulletin</i> , 2009, 63, 449-465.	1.7	110
17	Poly(ethylene terephthalate) Recycling and Recovery of Pure Terephthalic Acid. Kinetics of a Phase Transfer Catalyzed Alkaline Hydrolysis. <i>Macromolecular Materials and Engineering</i> , 2001, 286, 640.	1.7	105
18	Modeling of diffusion-controlled free-radical polymerization reactions. <i>Journal of Applied Polymer Science</i> , 1988, 35, 1303-1323.	1.3	100

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19	Thermal expansion characteristics of light-cured dental resins and resin composites. <i>Biomaterials</i> , 2004, 25, 3087-3097.	5.7	97
20	Alkyd resins derived from glycolized waste poly(ethylene terephthalate). <i>European Polymer Journal</i> , 2005, 41, 201-210.	2.6	94
21	Reactivity of Benzoyl Peroxide/Amine System as an Initiator for the Free Radical Polymerization of Dental and Orthopaedic Dimethacrylate Monomers: A Effect of the Amine and Monomer Chemical Structure. <i>Macromolecules</i> , 2006, 39, 2072-2080.	2.2	87
22	Synthesis and Characterization of PMMA/Organomodified Montmorillonite Nanocomposites Prepared by in Situ Bulk Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 571-579.	1.8	86
23	Chitosan-g-PEG nanoparticles ionically crosslinked with poly(glutamic acid) and tripolyphosphate as protein delivery systems. <i>International Journal of Pharmaceutics</i> , 2012, 430, 318-327.	2.6	86
24	Poly(ethylene furanoate-co-ethylene terephthalate) biobased copolymers: Synthesis, thermal properties and cocrystallization behavior. <i>European Polymer Journal</i> , 2017, 89, 349-366.	2.6	86
25	Glycolytic depolymerization of PET waste in a microwave reactor. <i>Journal of Applied Polymer Science</i> , 2010, 118, 3066-3073.	1.3	85
26	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> , 2007, 43, 2564-2575.	2.6	84
27	Dynamic Simulation of Industrial Poly(vinyl chloride) Batch Suspension Polymerization Reactors. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 1253-1267.	1.8	82
28	Chemical Recycling of PET by Glycolysis: Polymerization and Characterization of the Dimethacrylated Glycolysate. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 1338-1347.	1.7	82
29	Chemical recycling of polymers from Waste Electric and Electronic Equipment. <i>Journal of Applied Polymer Science</i> , 2009, 114, 212-221.	1.3	82
30	Study of various catalysts in the synthesis of poly(propylene terephthalate) and mathematical modeling of the esterification reaction. <i>Polymer</i> , 2003, 44, 931-942.	1.8	79
31	Kinetics of the Benzoyl Peroxide/Amine Initiated Free-Radical Polymerization of Dental Dimethacrylate Monomers: A Experimental Studies and Mathematical Modeling for TEGDMA and Bis-EMA. <i>Macromolecules</i> , 2004, 37, 4254-4265.	2.2	77
32	Hydrolytic Depolymerization of PET in a Microwave Reactor. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 575-584.	1.7	74
33	Cure kinetics of epoxy-amine resins used in the restoration of works of art from glass or ceramic. <i>European Polymer Journal</i> , 2006, 42, 3311-3323.	2.6	73
34	Synthesis of poly(alkylene succinate) biodegradable polyesters, Part II: Mathematical modelling of the polycondensation reaction. <i>Polymer</i> , 2008, 49, 3677-3685.	1.8	73
35	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> , 2014, 110, 482-491.	2.7	72
36	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> , 2012, 49, 630-638.	1.2	71

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37	Synthesis of poly(alkylene succinate) biodegradable polyesters I. Mathematical modelling of the esterification reaction. <i>Polymer</i> , 2006, 47, 4851-4860.	1.8	70
38	Non-Isothermal Crystallisation Kinetics of In Situ Prepared Poly(ϵ -caprolactone)/Surface-Treated SiO ₂ Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 364-376.	1.1	67
39	Isothermal and nonisothermal crystallization kinetics of poly(propylene terephthalate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3775-3796.	2.4	65
40	Aminolytic depolymerization of poly(ethylene terephthalate) waste in a microwave reactor. <i>Polymer International</i> , 2011, 60, 500-506.	1.6	62
41	Recycling of poly(ethylene terephthalate) waste through methanolic pyrolysis in a microwave reactor. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 98, 214-220.	2.6	61
42	Compatibility of low-density polyethylene/poly(ethylene-co-vinyl acetate) binary blends prepared by melt mixing. <i>Journal of Applied Polymer Science</i> , 2003, 90, 841-852.	1.3	60
43	Sustainable, eco-friendly polyesters synthesized from renewable resources: preparation and thermal characteristics of poly(dimethyl-propylene furanoate). <i>Polymer Chemistry</i> , 2015, 6, 8284-8296.	1.9	60
44	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> , 2007, 81B, 207-218.	1.6	59
45	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> , 2016, 117, 162-175.	2.6	59
46	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> , 2012, 48, 240-251.	2.6	58
47	Thermal degradation of light-cured dimethacrylate resins. <i>Thermochimica Acta</i> , 2008, 472, 74-83.	1.2	57
48	Effect of molecular weight on the cold-crystallization of biodegradable poly(ethylene succinate). <i>Thermochimica Acta</i> , 2007, 457, 41-54.	1.2	56
49	STUDY OF THE EFFECT OF TWO BPO/AMINE INITIATION SYSTEMS ON THE FREE-RADICAL POLYMERIZATION OF MMA USED IN DENTAL RESINS AND BONE CEMENTS. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2002, 39, 1435-1450.	1.2	53
50	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> , 2017, 10, 801.	1.3	53
51	Evaluation of the Isoconversional Approach to Estimating the Hoffman-Lauritzen Parameters from the Overall Rates of Non-Isothermal Crystallization of Polymers. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1511-1519.	1.1	52
52	Green Synthesis of Silver Nanoparticles and Study of Their Antimicrobial Properties. <i>Journal of Polymers and the Environment</i> , 2018, 26, 423-433.	2.4	52
53	Miscibility and enzymatic degradation studies of poly(μ -caprolactone)/poly(propylene succinate) blends. <i>European Polymer Journal</i> , 2007, 43, 2491-2503.	2.6	51
54	Migration of styrene from plastic packaging based on polystyrene into food simulants. <i>Polymer International</i> , 2012, 61, 141-148.	1.6	51

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55	Chemical Recycling of Polycarbonate Based Wastes Using Alkaline Hydrolysis Under Microwave Irradiation. Waste and Biomass Valorization, 2013, 4, 3-7.	1.8	49
56	A novel method for the preparation of inorganic and organo-modified montmorillonite essential oil hybrids. Applied Clay Science, 2017, 146, 362-370.	2.6	49
57	Development of a unified framework for calculating molecular weight distribution in diffusion controlled free radical bulk homo-polymerization. Polymer, 2005, 46, 539-552.	1.8	48
58	Pyrolysis mechanism and thermal degradation kinetics of poly(bisphenol A carbonate)-based polymers originating in waste electric and electronic equipment. Journal of Analytical and Applied Pyrolysis, 2018, 132, 123-133.	2.6	47
59	Thermal Degradation Kinetics and Viscoelastic Behavior of Poly(Methyl Terephthalate) Nanocomposites. Polymers, 2018, 10, 491.	2.0	46
60	ICTAC Kinetics Committee recommendations for analysis of thermal polymerization kinetics. Thermochimica Acta, 2022, 714, 179243.	1.2	44
61	Biodegradable poly(ethylene succinate) nanocomposites. Effect of filler type on thermal behaviour and crystallization kinetics. Polymer, 2013, 54, 4604-4616.	1.8	43
62	Solid State Polymerization of Poly(Ethylene Furanoate) and Its Nanocomposites with SiO ₂ and TiO ₂ . Macromolecular Materials and Engineering, 2017, 302, 1700012.	1.7	43
63	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. Polymers, 2018, 10, 471.	2.0	43
64	Toward the Development of a General Framework for Modeling Molecular Weight and Compositional Changes in Free-Radical Copolymerization Reactions. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 1992, 32, 183-234.	2.2	42
65	Effect of clay structure and type of organomodifier on the thermal properties of poly(ethylene terephthalate) nanocomposites. Journal of Applied Polymer Science, 2012, 85, 1200-1208.	1.2	42
66	Environmentally friendly chemical recycling of poly(bisphenol-A carbonate) through phase transfer-catalysed alkaline hydrolysis under microwave irradiation. Journal of Hazardous Materials, 2012, 241-242, 137-145.	6.5	41
67	PMMA/organomodified montmorillonite nanocomposites prepared by in situ bulk polymerization. Journal of Thermal Analysis and Calorimetry, 2010, 102, 451-460.	2.0	40
68	Investigation of the radical polymerization kinetics using DSC and mechanistic or isoconversional methods. Journal of Thermal Analysis and Calorimetry, 2014, 116, 1379-1386.	2.0	40
69	Exploring Next-Generation Engineering Bioplastics: Poly(alkylene furanoate)/Poly(alkylene terephthalate) Nanocomposites. Polymers, 2020, 12, 40.	2.0	40
70	Effect of silica nanoparticles on solid state polymerization of poly(ethylene terephthalate). European Polymer Journal, 2008, 44, 3096-3107.	2.6	39
71	Estimation of thermal transitions in poly(ethylene naphthalate): Experiments and modeling using isoconversional methods. Polymer, 2010, 51, 2565-2575.	1.8	39
72	Thermal degradation kinetics and isoconversional analysis of biodegradable poly(3-hydroxybutyrate)/organomodified montmorillonite nanocomposites. Thermochimica Acta, 2011, 514, 58-66.	1.2	39

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73	Pyrolysis and catalytic pyrolysis as a recycling method of waste CDs originating from polycarbonate and HIPS. <i>Waste Management</i> , 2014, 34, 2487-2493.	3.7	39
74	Synthesis, characterization and reaction kinetics of PMMA/silver nanocomposites prepared via in situ radical polymerization. <i>European Polymer Journal</i> , 2015, 72, 256-269.	2.6	38
75	Crystallization Kinetics and Melting Behaviour of the Novel Biodegradable Polyesters Poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 222	1.1	37
76	Solid-State Polymerization of Poly(ethylene furanoate) Biobased Polyester, I: Effect of Catalyst Type on Molecular Weight Increase. <i>Polymers</i> , 2017, 9, 607.	2.0	37
77	Chemical Recycling of PET in the Presence of the Bio-Based Polymers, PLA, PHB and PEF: A Review. <i>Sustainability</i> , 2021, 13, 10528.	1.6	37
78	Polymerization Kinetics of Poly(2-Hydroxyethyl Methacrylate) Hydrogels and Nanocomposite Materials. <i>Processes</i> , 2017, 5, 21.	1.3	36
79	Novel trends in the thermo-chemical recycling of plastics from WEEE containing brominated flame retardants. <i>Environmental Science and Pollution Research</i> , 2021, 28, 59190-59213.	2.7	36
80	Modeling gel effect in branched polymer systems: Free radical solution homopolymerization of vinyl acetate. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2171-2185.	1.3	33
81	Synthesis and Characterization of Dental Nanocomposite Resins Filled with Different Clay Nanoparticles. <i>Polymers</i> , 2019, 11, 730.	2.0	33
82	Copolymerization kinetics of dental dimethacrylate resins initiated by a benzoyl peroxide/amine redox system. <i>Journal of Applied Polymer Science</i> , 2008, 109, 515-524.	1.3	32
83	Sustainable Plastics from Biomass: Blends of Polyesters Based on 2,5-Furandicarboxylic Acid. <i>Polymers</i> , 2020, 12, 225.	2.0	32
84	TEOS-Based Superhydrophobic Coating for the Protection of Stone-Built Cultural Heritage. <i>Coatings</i> , 2021, 11, 135.	1.2	31
85	A theoretical investigation of the production of branched copolymers in continuous stirred tank reactors. <i>Macromolecular Theory and Simulations</i> , 1996, 5, 477-497.	0.6	29
86	Effect of activated carbon black nanoparticles on solid state polymerization of poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	2.6	28
87	Isothermal and non-isothermal crystallization kinetics of branched and partially crosslinked PET. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 84, 85-89.	2.0	28
88	Synthesis and comparative study of biodegradable poly(alkylene sebacate)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 672-686.	2.4	28
89	Crystallization and biodegradation of poly(butylene azelate): Comparison with poly(ethylene azelate) and poly(propylene azelate). <i>Thermochimica Acta</i> , 2011, 515, 13-23.	1.2	25
90	Synthesis and characterization of poly(2-hydroxyethyl methacrylate)/silver hydrogel nanocomposites prepared via in situ radical polymerization. <i>Thermochimica Acta</i> , 2016, 643, 53-64.	1.2	25

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91	Development of a unified mathematical framework for modelling molecular and structural changes in free-radical homopolymerization reactions. <i>Polymer</i> , 1992, 33, 5019-5031.	1.8	24
92	Step-scan TMDSC and high rate DSC study of the multiple melting behavior of poly(1,3-propylene) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.6	24
93	Modeling of diffusion-controlled reactions in free radical solution and bulk polymerization: Model validation by DSC experiments. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1842-1856.	1.3	24
94	Dynamic simulation of primary particle-size distribution in vinyl chloride polymerization. <i>Journal of Applied Polymer Science</i> , 1994, 54, 1423-1438.	1.3	23
95	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> , 2017, 11, 1.	3.3	23
96	Synthesis and characterization of novel nanocomposite materials based on poly(styrene-co-butyl) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	2.6	22
97	Effect of Graphene Oxide on the Reaction Kinetics of Methyl Methacrylate In Situ Radical Polymerization via the Bulk or Solution Technique. <i>Polymers</i> , 2017, 9, 432.	2.0	22
98	Solid-State Polymerization of Poly(Ethylene Furanoate) Biobased Polyester, III: Extended Study on Effect of Catalyst Type on Molecular Weight Increase. <i>Polymers</i> , 2019, 11, 438.	2.0	22
99	State-of-the-Art Quantification of Polymer Solution Viscosity for Plastic Waste Recycling. <i>ChemSusChem</i> , 2021, 14, 4071-4102.	3.6	22
100	The Effect of Oxygen on the Kinetics and Particle Size Distribution in Vinyl Chloride Emulsion Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 3097-3109.	1.8	21
101	Effect of the type of nano-filler on the crystallization and mechanical properties of syndiotactic polystyrene based nanocomposites. <i>Thermochimica Acta</i> , 2013, 565, 82-94.	1.2	21
102	Kinetic analysis of thermal and catalytic degradation of polymers found in waste electric and electronic equipment. <i>Thermochimica Acta</i> , 2019, 675, 69-76.	1.2	21
103	A Step Forward in Thermoplastic Polyesters: Understanding the Crystallization and Melting of Biobased Poly(ethylene 2,5-furandicarboxylate) (PEF). <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7050-7064.	3.2	21
104	Polymerization kinetics and thermal properties of poly(alkyl methacrylate)/organomodified montmorillonite nanocomposites. <i>Polymer International</i> , 2012, 61, 1510-1518.	1.6	20
105	Effect of graphene oxide and its modification on the microstructure, thermal properties and enzymatic hydrolysis of poly(ethylene succinate) nanocomposites. <i>Thermochimica Acta</i> , 2015, 614, 116-128.	1.2	20
106	Depolymerization of PLA by Phase Transfer Catalysed Alkaline Hydrolysis in a Microwave Reactor. <i>Journal of Polymers and the Environment</i> , 2020, 28, 1664-1672.	2.4	20
107	Synthesis of D-Limonene Loaded Polymeric Nanoparticles with Enhanced Antimicrobial Properties for Potential Application in Food Packaging. <i>Nanomaterials</i> , 2021, 11, 191.	1.9	20
108	Evaluation of the crystallisation kinetics of poly(propylene terephthalate) using DSC and polarized light microscopy. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 86, 791-795.	2.0	19

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109	Bulk Free Radical Polymerization of Methyl Methacrylate and Vinyl Acetate: A Comparative Study. <i>Macromolecular Reaction Engineering</i> , 2016, 10, 577-587.	0.9	19
110	Use of asphaltene filler to improve low-density polyethylene properties. <i>Petroleum Science and Technology</i> , 2018, 36, 756-764.	0.7	19
111	Pyrolytic degradation kinetics of HIPS, ABS, PC and their blends with PP and PVC. <i>Thermochimica Acta</i> , 2020, 690, 178705.	1.2	19
112	On the validity of the steady-state approximations in high conversion diffusion-controlled free-radical copolymerization reactions. <i>Polymer</i> , 1994, 35, 1714-1721.	1.8	17
113	An experimental and theoretical study of butyl methacrylate <i>in situ</i> radical polymerization kinetics in the presence of graphene oxide nanoadditive. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1433-1441.	2.5	17
114	Thermal degradation and isoconversional kinetic analysis of light-cured dimethacrylate copolymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 99, 917-923.	2.0	16
115	Effect of organoclays type on solid-state polymerization (SSP) of poly(ethylene terephthalate): Experimental and modeling. <i>European Polymer Journal</i> , 2015, 63, 156-167.	2.6	16
116	Dental light-cured nanocomposites based on a dimethacrylate matrix: Thermal degradation and isoconversional kinetic analysis in N ₂ atmosphere. <i>Thermochimica Acta</i> , 2015, 599, 63-72.	1.2	16
117	A Simple Route for Purifying Extracellular Poly(3-hydroxybutyrate)-depolymerase from <i>Penicillium pinophilum</i> . <i>Enzyme Research</i> , 2014, 2014, 1-6.	1.8	15
118	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> , 2014, 466, 211-222.	2.6	15
119	Pyrolytic degradation of common polymers present in packaging materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 2683-2689.	2.0	15
120	Biobased Engineering Thermoplastics: Poly(butylene 2,5-furandicarboxylate) Blends. <i>Polymers</i> , 2019, 11, 937.	2.0	15
121	Melting point depression and cocrystallization behavior of poly(ethylene-co-butylene 2,6-naphthalate) copolymers. <i>Polymer International</i> , 2004, 53, 1360-1367.	1.6	14
122	Evaluating the Role of Nanomontmorillonite in Bulk in Situ Radical Polymerization Kinetics of Butyl Methacrylate through a Simulation Model. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11303-11311.	1.8	14
123	Towards High Molecular Weight Furan-Based Polyesters: Solid State Polymerization Study of Bio-Based Poly(Propylene Furanoate) and Poly(Butylene Furanoate). <i>Materials</i> , 2020, 13, 4880.	1.3	14
124	Effect of Na- and Organo-Modified Montmorillonite/Essential Oil Nanohybrids on the Kinetics of the In Situ Radical Polymerization of Styrene. <i>Nanomaterials</i> , 2021, 11, 474.	1.9	14
125	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> , 2021, 13, 3652.	2.0	14
126	Synthesis, Crystallization, and Enzymatic Degradation of the Biodegradable Polyester Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.1	13

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127	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> , 2013, 14, 239-245.	0.7	13
128	Characterization and Crystallization Kinetics of in situ Prepared Poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (terephthalate). <i>Journal of Applied Polymer Science</i> , 2018, 143, 66-79.	1.1	12
129	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> , 2014, 63, 766-777.	1.6	12
130	Effect of high surface area mesoporous silica fillers (MCF and SBA-15) on solid state polymerization of PET. <i>European Polymer Journal</i> , 2016, 81, 347-364.	2.6	11
131	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> , 2016, 94, 1783-1791.	0.9	11
132	Effect of Natural Macromolecule Filler on the Properties of High-Density Polyethylene (HDPE). <i>Macromolecular Symposia</i> , 2018, 380, 1800072.	0.4	11
133	Synthesis of Novel Dental Nanocomposite Resins by Incorporating Polymerizable, Quaternary Ammonium Silane-Modified Silica Nanoparticles. <i>Polymers</i> , 2021, 13, 1682.	2.0	11
134	Polymer Degradation Under Microwave Irradiation. <i>Advances in Polymer Science</i> , 2014, , 309-346.	0.4	10
135	A New Era in Engineering Plastics: Compatibility and Perspectives of Sustainable Aliphatic Poly(ethylene terephthalate)/Poly(ethylene 2,5-furandicarboxylate) Blends. <i>Polymers</i> , 2021, 13, 1070.	2.0	10
136	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> , 2022, 26, 100612.	1.6	10
137	Chemical and Thermochemical Recycling of Polymers from Waste Electrical and Electronic Equipment. , 0, . , .		9
138	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> , 2020, 11, 3732-3746.	1.9	9
139	Acetaldehyde contamination of water, alcoholic, and non-alcoholic beverages stored in glass or plastic bottles. <i>Toxicological and Environmental Chemistry</i> , 2016, 98, 1183-1190.	0.6	8
140	Polymerization Kinetics of <i>n</i> -Butyl Methacrylate in the Presence of Graphene Oxide Prepared by Two Different Oxidation Methods with or without Functionalization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2449-2460.	1.8	8
141	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> , 2018, 134, 1307-1315.	2.0	8
142	Isoconversional Glass Transition Kinetics and Fragility Determination of Poly[(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (2,2,2-trifluoroethyl methacrylate)] and Physics, 2011, 212, 730-736.	1.1	7
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