

Dimitris S Achilias

List of Publications by Citations

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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 | Chemical recycling of plastic wastes made from polyethylene (LDPE and HDPE) and polypropylene (PP). <i>Journal of Hazardous Materials</i> , 2007 , 149, 536-42 | 12.8 | 387 |
| 159 | Crystallization kinetics and nucleation activity of filler in polypropylene/surface-treated SiO ₂ nanocomposites. <i>Thermochimica Acta</i> , 2005 , 427, 117-128 | 2.9 | 264 |
| 158 | Water sorption isotherms and glass transition temperature of spray dried tomato pulp. <i>Journal of Food Engineering</i> , 2008 , 85, 73-83 | 6 | 222 |
| 157 | Development of a general mathematical framework for modeling diffusion-controlled free-radical polymerization reactions. <i>Macromolecules</i> , 1992 , 25, 3739-3750 | 5.5 | 220 |
| 156 | Chemical Recycling of Poly(ethylene terephthalate). <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 128-146 | 3.9 | 217 |
| 155 | Synthesis and comparative biodegradability studies of three poly(alkylene succinate)s. <i>Polymer Degradation and Stability</i> , 2006 , 91, 31-43 | 4.7 | 179 |
| 154 | A Review of Modeling of Diffusion Controlled Polymerization Reactions. <i>Macromolecular Theory and Simulations</i> , 2007 , 16, 319-347 | 1.5 | 176 |
| 153 | PLA nanocomposites: Effect of filler type on non-isothermal crystallization. <i>Thermochimica Acta</i> , 2010 , 511, 129-139 | 2.9 | 166 |
| 152 | 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 , 74, 617-26 | 3.5 | 150 |
| 151 | Water sorption characteristics of light-cured dental resins and composites based on Bis-EMA/PCDMA. <i>Biomaterials</i> , 2004 , 25, 367-76 | 15.6 | 129 |
| 150 | Crystallization Kinetics of Biodegradable Poly(butylene succinate) under Isothermal and Non-Isothermal Conditions. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 1250-1264 | 2.6 | 125 |
| 149 | Poly(ethylene terephthalate) recycling and recovery of pure terephthalic acid by alkaline hydrolysis. <i>Advances in Polymer Technology</i> , 2002 , 21, 250-259 | 1.9 | 116 |
| 148 | Recent Advances in Polycarbonate Recycling: A Review of Degradation Methods and Their Mechanisms. <i>Waste and Biomass Valorization</i> , 2013 , 4, 9-21 | 3.2 | 93 |
| 147 | Modeling of diffusion-controlled free-radical polymerization reactions. <i>Journal of Applied Polymer Science</i> , 1988 , 35, 1303-1323 | 2.9 | 92 |
| 146 | Thermal expansion characteristics of light-cured dental resins and resin composites. <i>Biomaterials</i> , 2004 , 25, 3087-97 | 15.6 | 86 |
| 145 | The Chemical Recycling of PET in the Framework of Sustainable Development. <i>Water, Air and Soil Pollution</i> , 2004 , 4, 385-396 | | 83 |
| 144 | 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 | 3.9 | 80 |

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| 143 | Alkyd resins derived from glycolized waste poly(ethylene terephthalate). <i>European Polymer Journal</i> , 2005 , 41, 201-210 | 5.2 | 78 |
| 142 | Synthesis and Characterization of PMMA/Organomodified Montmorillonite Nanocomposites Prepared by in Situ Bulk Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 571-579 | 3.9 | 77 |
| 141 | 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> , 2006 , 39, 2072-2080 | 5.5 | 75 |
| 140 | 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 | 3.9 | 73 |
| 139 | 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 | 3.9 | 73 |
| 138 | Chitosan-g-PEG nanoparticles ionically crosslinked with poly(glutamic acid) and tripolyphosphate as protein delivery systems. <i>International Journal of Pharmaceutics</i> , 2012 , 430, 318-27 | 6.5 | 69 |
| 137 | Chemical Recycling of PET by Glycolysis: Polymerization and Characterization of the Dimethacrylated Glycolysate. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1338-1347 | 3.9 | 67 |
| 136 | Recycling of polymers from plastic packaging materials using the dissolution/precipitation technique. <i>Polymer Bulletin</i> , 2009 , 63, 449-465 | 2.4 | 66 |
| 135 | Dynamic Simulation of Industrial Poly(vinyl chloride) Batch Suspension Polymerization Reactors. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 1253-1267 | 3.9 | 66 |
| 134 | Kinetics of the Benzoyl Peroxide/Amine Initiated Free-Radical Polymerization of Dental Dimethacrylate Monomers: Experimental Studies and Mathematical Modeling for TEGDMA and Bis-EMA. <i>Macromolecules</i> , 2004 , 37, 4254-4265 | 5.5 | 65 |
| 133 | Chemical recycling of polymers from Waste Electric and Electronic Equipment. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 212-221 | 2.9 | 64 |
| 132 | Glycolytic depolymerization of PET waste in a microwave reactor. <i>Journal of Applied Polymer Science</i> , 2010 , 118, 3066-3073 | 2.9 | 62 |
| 131 | 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 | 2.6 | 62 |
| 130 | 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 | 5.2 | 62 |
| 129 | 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 | 5.2 | 61 |
| 128 | Synthesis of poly(alkylene succinate) biodegradable polyesters, Part II: Mathematical modelling of the polycondensation reaction. <i>Polymer</i> , 2008 , 49, 3677-3685 | 3.9 | 60 |
| 127 | Synthesis of poly(alkylene succinate) biodegradable polyesters I. Mathematical modelling of the esterification reaction. <i>Polymer</i> , 2006 , 47, 4851-4860 | 3.9 | 59 |
| 126 | Isothermal and nonisothermal crystallization kinetics of poly(propylene terephthalate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 3775-3796 | 2.6 | 58 |

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| 125 | Hydrolytic Depolymerization of PET in a Microwave Reactor. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 575-584 | 3.9 | 53 |
| 124 | Poly(ethylene furanoate-co-ethylene terephthalate) biobased copolymers: Synthesis, thermal properties and cocrystallization behavior. <i>European Polymer Journal</i> , 2017 , 89, 349-366 | 5.2 | 52 |
| 123 | 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 | 2.2 | 52 |
| 122 | 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 | 5.2 | 51 |
| 121 | Effect of molecular weight on the cold-crystallization of biodegradable poly(ethylene succinate). <i>Thermochimica Acta</i> , 2007 , 457, 41-54 | 2.9 | 51 |
| 120 | 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 | 2.9 | 51 |
| 119 | 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 | 4.9 | 50 |
| 118 | Aminolytic depolymerization of poly(ethylene terephthalate) waste in a microwave reactor. <i>Polymer International</i> , 2011 , 60, 500-506 | 3.3 | 50 |
| 117 | Thermal degradation of light-cured dimethacrylate resins: Part I. Isoconversional kinetic analysis. <i>Thermochimica Acta</i> , 2008 , 472, 74-83 | 2.9 | 50 |
| 116 | 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 , 81, 207-18 | 3.5 | 49 |
| 115 | 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 | 2.6 | 49 |
| 114 | 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 | 4.7 | 47 |
| 113 | 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 | 6 | 46 |
| 112 | Development of a unified framework for calculating molecular weight distribution in diffusion controlled free radical bulk homo-polymerization. <i>Polymer</i> , 2005 , 46, 539-552 | 3.9 | 46 |
| 111 | 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 | 2.2 | 45 |
| 110 | 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 | 6 | 44 |
| 109 | Green Synthesis of Silver Nanoparticles and Study of Their Antimicrobial Properties. <i>Journal of Polymers and the Environment</i> , 2018 , 26, 423-433 | 4.5 | 43 |
| 108 | Miscibility and enzymatic degradation studies of poly(ϵ -caprolactone)/poly(propylene succinate) blends. <i>European Polymer Journal</i> , 2007 , 43, 2491-2503 | 5.2 | 43 |

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| 107 | Chemical Recycling of Polycarbonate Based Wastes Using Alkaline Hydrolysis Under Microwave Irradiation. <i>Waste and Biomass Valorization</i> , 2013 , 4, 3-7 | 3.2 | 40 |
| 106 | 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, | 3.5 | 38 |
| 105 | Biodegradable poly(ethylene succinate) nanocomposites. Effect of filler type on thermal behaviour and crystallization kinetics. <i>Polymer</i> , 2013 , 54, 4604-4616 | 3.9 | 38 |
| 104 | Effect of clay structure and type of organomodifier on the thermal properties of poly(ethylene terephthalate) based nanocomposites. <i>Thermochimica Acta</i> , 2014 , 576, 84-96 | 2.9 | 36 |
| 103 | PMMA/organomodified montmorillonite nanocomposites prepared by in situ bulk polymerization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 102, 451-460 | 4.1 | 36 |
| 102 | Effect of silica nanoparticles on solid state polymerization of poly(ethylene terephthalate). <i>European Polymer Journal</i> , 2008 , 44, 3096-3107 | 5.2 | 36 |
| 101 | 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> , 2018 , 10, | 4.5 | 35 |
| 100 | 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> , 2018 , 132, 123-133 | 6 | 34 |
| 99 | Investigation of the radical polymerization kinetics using DSC and mechanistic or isoconversional methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 1379-1386 | 4.1 | 34 |
| 98 | A novel method for the preparation of inorganic and organo-modified montmorillonite essential oil hybrids. <i>Applied Clay Science</i> , 2017 , 146, 362-370 | 5.2 | 34 |
| 97 | Migration of styrene from plastic packaging based on polystyrene into food simulants. <i>Polymer International</i> , 2012 , 61, 141-148 | 3.3 | 34 |
| 96 | Estimation of thermal transitions in poly(ethylene naphthalate): Experiments and modeling using isoconversional methods. <i>Polymer</i> , 2010 , 51, 2565-2575 | 3.9 | 34 |
| 95 | Crystallization Kinetics and Melting Behaviour of the Novel Biodegradable Polyesters Poly(propylene azelate) and Poly(propylene sebacate). <i>Macromolecular Chemistry and Physics</i> , 2009 , 210, 90-107 | 2.6 | 33 |
| 94 | Thermal degradation kinetics and isoconversional analysis of biodegradable poly(3-hydroxybutyrate)/organomodified montmorillonite nanocomposites. <i>Thermochimica Acta</i> , 2011 , 514, 58-66 | 2.9 | 33 |
| 93 | Toward the Development of a General Framework for Modeling Molecular Weight and Compositional Changes in Free-Radical Copolymerization Reactions. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1992 , 32, 183-234 | | 33 |
| 92 | 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 | 2.9 | 31 |
| 91 | Synthesis, characterization and reaction kinetics of PMMA/silver nanocomposites prepared via in situ radical polymerization. <i>European Polymer Journal</i> , 2015 , 72, 256-269 | 5.2 | 30 |
| 90 | Pyrolysis and catalytic pyrolysis as a recycling method of waste CDs originating from polycarbonate and HIPS. <i>Waste Management</i> , 2014 , 34, 2487-93 | 8.6 | 30 |

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| 89 | Environmentally friendly chemical recycling of poly(bisphenol-A carbonate) through phase transfer-catalysed alkaline hydrolysis under microwave irradiation. <i>Journal of Hazardous Materials</i> , 2012 , 241-242, 137-45 | 12.8 | 30 |
| 88 | 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 | 2.9 | 29 |
| 87 | Solid State Polymerization of Poly(Ethylene Furanoate) and Its Nanocomposites with SiO ₂ and TiO ₂ . <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700012 | 3.9 | 27 |
| 86 | Effect of activated carbon black nanoparticles on solid state polymerization of poly(ethylene terephthalate). <i>European Polymer Journal</i> , 2006 , 42, 3190-3201 | 5.2 | 27 |
| 85 | Exploring Next-Generation Engineering Bioplastics: Poly(alkylene furanoate)/Poly(alkylene terephthalate) (PAF/PAT) Blends. <i>Polymers</i> , 2019 , 11, | 4.5 | 26 |
| 84 | Solid-State Polymerization of Poly(ethylene furanoate) Biobased Polyester, I: Effect of Catalyst Type on Molecular Weight Increase. <i>Polymers</i> , 2017 , 9, | 4.5 | 26 |
| 83 | A theoretical investigation of the production of branched copolymers in continuous stirred tank reactors. <i>Macromolecular Theory and Simulations</i> , 1996 , 5, 477-497 | 1.5 | 26 |
| 82 | Synthesis and Characterization of Dental Nanocomposite Resins Filled with Different Clay Nanoparticles. <i>Polymers</i> , 2019 , 11, | 4.5 | 25 |
| 81 | Thermal Degradation Kinetics and Viscoelastic Behavior of Poly(Methyl Methacrylate)/Organomodified Montmorillonite Nanocomposites Prepared via In Situ Bulk Radical Polymerization. <i>Polymers</i> , 2018 , 10, | 4.5 | 25 |
| 80 | Polymerization Kinetics of Poly(2-Hydroxyethyl Methacrylate) Hydrogels and Nanocomposite Materials. <i>Processes</i> , 2017 , 5, 21 | 2.9 | 25 |
| 79 | Synthesis and comparative study of biodegradable poly(alkylene sebacate)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 672-686 | 2.6 | 24 |
| 78 | Step-scan TMDSC and high rate DSC study of the multiple melting behavior of poly(1,3-propylene terephthalate). <i>European Polymer Journal</i> , 2006 , 42, 434-445 | 5.2 | 22 |
| 77 | Synthesis and characterization of novel nanocomposite materials based on poly(styrene-co-butyl methacrylate) copolymers and organomodified clay. <i>European Polymer Journal</i> , 2013 , 49, 353-365 | 5.2 | 21 |
| 76 | Crystallization and biodegradation of poly(butylene azelate): Comparison with poly(ethylene azelate) and poly(propylene azelate). <i>Thermochimica Acta</i> , 2011 , 515, 13-23 | 2.9 | 20 |
| 75 | Isothermal and non-isothermal crystallization kinetics of branched and partially crosslinked PET. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006 , 84, 85-89 | 4.1 | 20 |
| 74 | Dynamic simulation of primary particle-size distribution in vinyl chloride polymerization. <i>Journal of Applied Polymer Science</i> , 1994 , 54, 1423-1438 | 2.9 | 20 |
| 73 | Development of a unified mathematical framework for modelling molecular and structural changes in free-radical homopolymerization reactions. <i>Polymer</i> , 1992 , 33, 5019-5031 | 3.9 | 20 |
| 72 | 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 | 2.9 | 20 |

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| 71 | 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 | 5.8 | 19 |
| 70 | 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 | 4.1 | 19 |
| 69 | 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 | 2.9 | 18 |
| 68 | Polymerization kinetics and thermal properties of poly(alkyl methacrylate)/organomodified montmorillonite nanocomposites. <i>Polymer International</i> , 2012 , 61, 1510-1518 | 3.3 | 17 |
| 67 | 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 | 2.9 | 16 |
| 66 | 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 | 3.9 | 16 |
| 65 | On the validity of the steady-state approximations in high conversion diffusion-controlled free-radical copolymerization reactions. <i>Polymer</i> , 1994 , 35, 1714-1721 | 3.9 | 16 |
| 64 | 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, | 4.5 | 15 |
| 63 | 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 | 5.2 | 15 |
| 62 | Bulk Free Radical Polymerization of Methyl Methacrylate and Vinyl Acetate: A Comparative Study. <i>Macromolecular Reaction Engineering</i> , 2016 , 10, 577-587 | 1.5 | 14 |
| 61 | 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, | 4.5 | 14 |
| 60 | Thermal degradation and isoconversional kinetic analysis of light-cured dimethacrylate copolymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 99, 917-923 | 4.1 | 14 |
| 59 | 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> , 2017 , 55, 1433-1441 | 2.5 | 13 |
| 58 | 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 | 2.9 | 13 |
| 57 | 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 | 3.9 | 13 |
| 56 | TEOS-Based Superhydrophobic Coating for the Protection of Stone-Built Cultural Heritage. <i>Coatings</i> , 2021 , 11, 135 | 2.9 | 13 |
| 55 | Kinetic analysis of thermal and catalytic degradation of polymers found in waste electric and electronic equipment. <i>Thermochimica Acta</i> , 2019 , 675, 69-76 | 2.9 | 12 |
| 54 | Synthesis, Crystallization, and Enzymatic Degradation of the Biodegradable Polyester Poly(ethylene azelate). <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 2585-2595 | 2.6 | 12 |

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| 53 | Melting point depression and cocrystallization behavior of poly(ethylene-co-butylene 2,6-naphthalate) copolymers. <i>Polymer International</i> , 2004 , 53, 1360-1367 | 3.3 | 12 |
| 52 | 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 | 5.1 | 11 |
| 51 | Sustainable Plastics from Biomass: Blends of Polyesters Based on 2,5-Furandicarboxylic Acid. <i>Polymers</i> , 2020 , 12, | 4.5 | 11 |
| 50 | A Simple Route for Purifying Extracellular Poly(3-hydroxybutyrate)-depolymerase from <i>Penicillium pinophilum</i> . <i>Enzyme Research</i> , 2014 , 2014, 159809 | 2.4 | 11 |
| 49 | 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 ³⁻³ | 3.3 | 11 |
| 48 | Characterization and Crystallization Kinetics of in situ Prepared Poly(propylene terephthalate)/SiO ₂ Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 66-79 | 2.6 | 11 |
| 47 | Use of asphaltene filler to improve low-density polyethylene properties. <i>Petroleum Science and Technology</i> , 2018 , 36, 756-764 | 1.4 | 10 |
| 46 | 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 | 2.3 | 9 |
| 45 | 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, 211-22 | 6.5 | 9 |
| 44 | 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, 239-45 | 2.7 | 9 |
| 43 | 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, NA-NA | 2.9 | 9 |
| 42 | 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 | 5.2 | 9 |
| 41 | Biobased Engineering Thermoplastics: Poly(butylene 2,5-furandicarboxylate) Blends. <i>Polymers</i> , 2019 , 11, | 4.5 | 8 |
| 40 | Pyrolytic degradation of common polymers present in packaging materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 2683-2689 | 4.1 | 7 |
| 39 | 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> , 2011 , 212, 730-736 | 2.6 | 7 |
| 38 | 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 | 4.5 | 6 |
| 37 | Polymerization Kinetics of n-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 | 3.9 | 6 |
| 36 | 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 | 1.4 | 6 |

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| 35 | Polymerization Kinetics and Thermal Degradation of Poly(2-hydroxyethyl methacrylate) / Organo-Modified Montmorillonite Nanocomposites Prepared by In Situ Bulk Polymerization. <i>Macromolecular Symposia</i> , 2013 , 331-332, 166-172 | 0.8 | 6 |
| 34 | Synthesis of D-Limonene Loaded Polymeric Nanoparticles with Enhanced Antimicrobial Properties for Potential Application in Food Packaging. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 6 |
| 33 | Effect of Natural Macromolecule Filler on the Properties of High-Density Polyethylene (HDPE). <i>Macromolecular Symposia</i> , 2018 , 380, 1800072 | 0.8 | 6 |
| 32 | Chemical Recycling of PET in the Presence of the Bio-Based Polymers, PLA, PHB and PEF: A Review. <i>Sustainability</i> , 2021 , 13, 10528 | 3.6 | 6 |
| 31 | 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, | 3.5 | 5 |
| 30 | Chemical and Thermochemical Recycling of Polymers from Waste Electrical and Electronic Equipment 2015 , | | 5 |
| 29 | Polymer Degradation Under Microwave Irradiation. <i>Advances in Polymer Science</i> , 2014 , 309-346 | 1.3 | 5 |
| 28 | 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, | 5.4 | 5 |
| 27 | Effect of graphene oxide on the kinetics of the radical polymerization of styrene. <i>Materials Today: Proceedings</i> , 2018 , 5, 27517-27525 | 1.4 | 5 |
| 26 | ICTAC Kinetics Committee recommendations for analysis of thermal polymerization kinetics. <i>Thermochimica Acta</i> , 2022 , 179243 | 2.9 | 5 |
| 25 | Effect of Graphene oxide or Functionalized Graphene Oxide on the Copolymerization Kinetics of Styrene/n-butyl Methacrylate. <i>Polymers</i> , 2019 , 11, | 4.5 | 4 |
| 24 | Pyrolytic degradation kinetics of HIPS, ABS, PC and their blends with PP and PVC. <i>Thermochimica Acta</i> , 2020 , 690, 178705 | 2.9 | 4 |
| 23 | Biopolyester-based nanocomposites: Structural, thermo-mechanical and biocompatibility characteristics of poly(3-hydroxybutyrate)/montmorillonite clay nanohybrids. <i>Journal of Applied Polymer Science</i> , 2014 , 132, n/a-n/a | 2.9 | 4 |
| 22 | Synthesis and Characterization of Novel Organomodified Nanoclays for Application in Dental Materials. <i>Current Nanoscience</i> , 2019 , >15, 512-524 | 1.4 | 4 |
| 21 | 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, | 4.5 | 4 |
| 20 | Synthesis of Novel Dental Nanocomposite Resins by Incorporating Polymerizable, Quaternary Ammonium Silane-Modified Silica Nanoparticles. <i>Polymers</i> , 2021 , 13, | 4.5 | 4 |
| 19 | State-Of-The-Art Quantification of Polymer Solution Viscosity for Plastic Waste Recycling. <i>ChemSusChem</i> , 2021 , 14, 4071-4102 | 8.3 | 4 |
| 18 | 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 | 4.9 | 3 |

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| 17 | 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 | 4.1 | 3 |
| 16 | Role of Polylimonene as a Bio-Based Additive in Thermal Oxidation of High Impact Polystyrene. <i>Macromolecular Symposia</i> , 2013 , 331-332, 173-180 | 0.8 | 3 |
| 15 | 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, | 4.5 | 3 |
| 14 | Nitroxide-mediated polymerization of styrene and limonene in the framework of synthesis of potentially functional polymers using naturally occurring terpenes. <i>Polymer Bulletin</i> , 2021 , 78, 4609-4628 | 2.4 | 3 |
| 13 | In cell biotinylation and immobilization of hBMP-2 (human Bone Morphogenetic Protein 2) on polymeric surfaces. <i>Biochemical Engineering Journal</i> , 2017 , 123, 1-12 | 4.2 | 2 |
| 12 | Spherulite growth rates of in situ prepared poly(propylene terephthalate)/SiO ₂ nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 114, 431-440 | 4.1 | 2 |
| 11 | Development of a comprehensive mathematical model for free radical suspension polymerization of methyl methacrylate. <i>Polymer Engineering and Science</i> , 2011 , 51, 670-678 | 2.3 | 2 |
| 10 | Effect of brominated flame retardant on the pyrolysis products of polymers originating in WEEE. <i>Environmental Science and Pollution Research</i> , 2021 , 1 | 5.1 | 2 |
| 9 | Nanocomposites of poly(3-hydroxybutyrate)/organomodified montmorillonite: Effect of the nanofiller on the polymer's biodegradation. <i>Journal of Applied Polymer Science</i> , 2014 , 132, n/a-n/a | 2.9 | 1 |
| 8 | 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 | 2.0 | 1 |
| 7 | Polymer packaging waste recycling: study of the pyrolysis of two blends via TGA. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 1891-1895 | 4.1 | 1 |
| 6 | Synthesis, Properties, and Mathematical Modeling of Biodegradable Aliphatic Polyesters Based on 1,3-Propanediol and Dicarboxylic Acids | 73-108 | 1 |
| 5 | 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> , 2022 , 12, 159 | 2.6 | 1 |
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| 3 | Recycling of the Engineering Plastics PC, HIPS, ABS and PA, Their Blends and Composites. <i>Composites Science and Technology</i> , 2021 , 43-68 | | 0 |
| 2 | Polymerisation Kinetics on FT-IR and Colorimetric Changes under UV Irradiation for a Commercial Polycyanoacrylate Adhesive, Addressed to Glass Restoration. <i>Coatings</i> , 2022 , 12, 490 | 2.9 | |
| 1 | Thermal Analysis in Polymer Recycling | 2022, 485-508 | |