

REFEREED JOURNAL PUBLICATIONS ([LINK](#))

Top Co-authors: Prof. Dimitrios Bikiaris ([LINK](#)): [21] - Prof. George Z. Papageorgiou ([LINK](#)): [20]

- To be submitted (2)
- (27) N. Kasmi, E. Bäckström, M. Hakkarainen\*. Open-loop recycling of post-consumer PET to closed-loop chemically recyclable high-performance polyimines, To be submitted in **2022** to *Resources, Conservation and Recycling journal* (IF: 13.716).
- (26) N. Kasmi\*, A. Lorenzetti, M. Hakkarainen\*. Novel biodegradable and biobased polyurethanes with tunable thermal properties, optical transparency and enhanced mechanical performance, To be submitted to *ACS Sustainable Chemistry & Engineering*.
- Published papers
- (25) M. Safari, N. Kasmi, C. Pisani, V. Berthé, A. J. Müller\*, Y. Habibi. Effect of the structural features of linear bio-based polyester plasticizers on the crystallization of polylactides, *International Journal of Biological Macromolecules* **2022**, *214*, 128-139. [LINK](#)
- (24) N. Kasmi\*, Z. Terzopoulou, Y. Chebbi, R. Dieden, Y. Habibi, D.N. Bikiaris. Tuning thermal properties and biodegradability of isosorbide-based polyester by compositional control through copolymerization with 2,5-furandicarboxylic acid, *Polym. Degrad. Stab.* **2022**, *195*, 109804. [LINK](#)
- (23) D. G. Papageorgiou\*, I. Tsetsou, R. O. Ioannidis, G. Nikolaidis, S. Exarhopoulos, N. Kasmi, D. N. Bikiaris, D. Achilias, G. Z. Papageorgiou\*. A new era in engineering plastics: compatibility and perspectives of sustainable aliphatic poly(ethylene terephthalate)/poly(ethylene 2,5-furandicarboxylate) blends, *Polymers* **2021**, *13*(7), 1070. [LINK](#)
- (22) L. Papadopoulos, A. Zamboulis, N. Kasmi, M. Wahbi, C. Nannou, D. A. Lambropoulou, M. Kostoglou, G. Z. Papageorgiou, D. N. Bikiaris\*. Investigation of the catalytic activity and reaction kinetic modeling of two antimony catalysts in the synthesis of poly(ethylene furanoate), *Green Chemistry* **2021**, *23*, 2507-2524. [LINK](#)
- (21) N. Kasmi, C. Pinel, D. Da Silva Perez, R. Dieden, Y. Habibi. Synthesis and characterization of fully biobased polyesters with tunable branched architectures, *Polymer Chemistry* **2021**, *12*, 991-1001. [LINK](#)
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- (19) Z. Terzopoulou, M. Wahbi, N. Kasmi, G.Z. Papageorgiou, D.N. Bikiaris\*. Effect of additives on the thermal and thermo-oxidative stability of poly(ethylene furanoate) biobased polyester, *Thermochim. Acta* **2020**, *686*, 178549. [LINK](#)
- (18) B. Quienne, N. Kasmi, R. Dieden, S. Caillol, Y. Habibi\*. Isocyanate-free fully biobased star polyester-urethanes: synthesis and thermal properties, *Biomacromolecules*, **2020**, *21*, 5, 1943–1951. [LINK](#)
- (17) N. Kasmi, N. Ainali, E. Agapiou, L. Papadopoulos, G.Z. Papageorgiou, D.N. Bikiaris\*. Novel High Tg fully biobased poly(hexamethylene-co-isosorbide-2,5-furan dicarboxylate) Copolyesters: Synergistic Effect of Isosorbide Insertion on Thermal performance Enhancement, *Polym. Degrad. Stab.* **2019**, *169*, 108983. [LINK](#)
- (16) N. Kasmi, M. Wahbi, L. Papadopoulos, Z. Terzopoulou, N. Guigo, N. Sbirrazzuoli, G.Z. Papageorgiou\*, D.N. Bikiaris\*. Synthesis and characterization of two new biobased poly(pentylene 2,5-furandicarboxylate-co-caprolactone) and poly(hexamethylene 2,5-furandicarboxylate-co-caprolactone) copolyesters with enhanced enzymatic hydrolysis properties, *Polym. Degrad. Stab.* **2019**, *160*, 242- 263. [LINK](#)
- (15) N. Kasmi, N. Pouloupoulou, Z. Terzopoulou, D.G. Papageorgiou\*, D.N. Bikiaris, G.Z. Papageorgiou\*. Sustainable Thermoplastics from Renewable Resources: Thermal behavior of Poly(1,4-cyclohexane dimethylene 2,5-furandicarboxylate), *Eur. Polym. J.* **2019**, *112*, 1-14. [LINK](#)
- (14) Y. Chebbi, N. Kasmi, M. Majdoub, P. Cerruti, G. Scarinzi, M. Malinconico, G. Dal Poggetto, G.Z. Papageorgiou, D.N. Bikiaris\*. Synthesis, Characterization, and Biodegradability of Novel Fully Biobased Poly(decamethylene-co-isosorbide 2,5-furandicarboxylate) Copolyesters with Enhanced Mechanical Properties, *ACS Sustain. Chem. Eng.* **2019**, *7*, 5501-5514. [LINK](#)
- (13) Y. Chebbi, N. Kasmi, M. Majdoub, G.Z. Papageorgiou\*, D.N. Achilias, D.N. Bikiaris\*. Solid-State Polymerization of Poly(Ethylene Furanoate) Biobased Polyester, III: Extended Study on Effect of Catalyst Type on Molecular Weight Increase, *Polymers* **2019**, *11*, 438. [LINK](#)
- (12) N. Pouloupoulou, A. Pipertzis, N. Kasmi, D.N. Bikiaris, D.G. Papageorgiou, G. Floudas, G.Z. Papageorgiou\*. Green polymeric materials: On the dynamic homogeneity and miscibility of furan-based polyester blends, *Polymer* **2019**, *174*, 187-199. [LINK](#)
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- (10) Z. Terzopoulou, E. Tarani, N. Kasmi, L. Papadopoulos, K. Chrissafis\*, D.G. Papageorgiou, G.Z. Papageorgiou, D.N. Bikiaris\*. Thermal Decomposition Kinetics and Mechanism of In-Situ Prepared Bio-Based Poly(propylene 2,5-furan dicarboxylate)/Graphene Nanocomposites, *Molecules* **2019**, *24*, 1717. [LINK](#)
- (9) N. Kasmi, M. Majdoub, G.Z. Papageorgiou\*, D.N. Bikiaris\*. Synthesis and crystallization of new fully renewable resources-based copolyesters: Poly(1,4-cyclohexanedimethanol-co-isosorbide 2,5-furandicarboxylate), *Polym. Degrad. Stab.* **2018**, *152*, 177-

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- (8) [N. Kasmi](#), G.Z. Papageorgiou\*, D.S. Achilias, D.N. Bikiaris\*. 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. [LINK](#)
- (7) [N. Kasmi](#), Z. Terzopoulou, G.Z. Papageorgiou, D.N. Bikiaris\*. Poly(1,4-cyclohexanedimethylene 2,6-naphthalate) polyester with high melting point: effect of different synthesis methods on molecular weight and properties, *eXPRESS Polym. Lett.* **2018**, *12*, 227-237. [LINK](#)
- (6) N. Pouloupoulou, [N. Kasmi](#), D.N. Bikiaris, D.G. Papageorgiou, G. Floudas, G.Z. Papageorgiou\*. Sustainable polymers from renewable resources: Polymer blends of furan-based polyesters, *Macromol. Mater. Eng.* **2018**, 1800153. [LINK](#)
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- (4) [N. Kasmi](#), M. Roso, N. Hammami, M. Majdoub, C. Boaretti, P. Sgarbossa, C. Vianello, G. Maschio, M. Modesti, A. Lorenzetti\*. Microwave-assisted synthesis of isosorbide-derived diols for the preparation of thermally stable thermoplastic polyurethane, *Des. Monomers Polym.* **2017**, *20*, 547-563. [LINK](#)
- (3) Z. Terzopoulou, [N. Kasmi](#), V. Tsanaktsis, N. Doulakas, D.N. Bikiaris\*, D.S. Achilias, G.Z. Papageorgiou\*. 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. [LINK](#)
- (2) Z. Terzopoulou, E. Karakatsianopoulou, [N. Kasmi](#), V. Tsanaktsis, N. Nikolaidis, M. Kostoglou, G.Z. Papageorgiou, D.A. Lambropoulou, D.N. Bikiaris\*. Effect of catalyst type on molecular weight increase and coloration of poly(ethylene furanoate) biobased polyester during melt polycondensation, *Polym. Chem.* **2017**, *8*, 6895-6908. [LINK](#)
- (1) Z. Terzopoulou, E. Karakatsianopoulou, [N. Kasmi](#), M. Majdoub, G.Z. Papageorgiou, D.N. Bikiaris\*. Effect of catalyst type on recyclability and decomposition mechanism of poly(ethylene furanoate) biobased polyester, *J. Anal. Appl. Pyrolysis* **2017**, *126*, 357-370. [LINK](#)