

REFEREED JOURNAL PUBLICATIONS

Top Co-authors: Prof. Dimitrios Bikiaris ([LINK](#)): [20] - Prof. George Z. Papageorgiou ([LINK](#)): [19]

- To be submitted (1) (23) **N. Kasmi**, Z. Terzopoulou, D.N. Bikiaris, Y. Habibi. Modification of Isosorbide-based polyester with 2,5-Furandicarboxylic acid (FDCA) for the synthesis of fully biobased furanoate plastics with enhanced Tg and biodegradability, to be submitted to *Green Chemistry* in January 2021.
- Submitted (2) (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), Submitted to *Green Chemistry* 2020.
- (21) **N. Kasmi**, C. Pinel, D. Da Silva Perez, R. Dieden, Y. Habibi. Synthesis and characterization of fully biobased polyesters with tunable branched architectures, Submitted to *Polymer Chemistry* 2020.
- Published papers (20) (20) **N. Kasmi**, L. Papadopoulos, Y. Chebbi, G.Z. Papageorgiou, D.N. Bikiaris*. Effective and facile solvent-free synthesis route to novel biobased monomers from vanillic acid: Structure-thermal property relationships of sustainable polyesters, *Polym. Degrad. Stab.* 2020, 181, 109315. [LINK](#)
- (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. Achillas, 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](#)
- (11) N. Pouloupoulou, **N. Kasmi**, M. Siampani, Z.N. Terzopoulou, D.N. Bikiaris, D.S. Achillas, D.G. Papageorgiou*, G.Z. Papageorgiou*. Exploring Next-Generation Engineering Bioplastics: Poly(alkylene furanoate)/Poly(alkylene terephthalate) (PAF/PAT) Blends, *Polymers* 2019, 11, 556. [LINK](#)
- (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, 177-190. [LINK](#)
- (8) **N. Kasmi**, G.Z. Papageorgiou*, D.S. Achillas, 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](#)
- (5) **N. Kasmi**, M. Majdoub, G.Z. Papageorgiou*, D.S. Achillas, D.N. Bikiaris*. Solid-state polymerization of poly(ethylene furanoate) biobased polyester. I: Effect of catalyst type on molecular weight increase, *Polymers* 2017, 9, 607. [LINK](#)
- (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. Tsanaktis, 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. Tsanaktis, 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](#)