

PERSONAL INFORMATION



Polymer Scientist,
Development of
Sustainable Polyesters

NEJIB KASMI, PhD

(One-page resume: [here](#))

Current address: Amsterdam, Netherlands | ✉ nejibkasmi@gmail.com ☎ +31617357898

Personal website: <https://nejibkasmi.com/> | Peer-reviewed articles: 27 (with > 1260 citations), h-index: 22

Member of ACS Biomacromolecules Early Career Board (2024) *Bio*MACROMOLECULES ([LINK 1](#), [LINK 2](#))

A solid scientific background and proven track-record in developing fully biobased polyesters — made from renewable monomers — for use as sustainable Packaging Materials. Currently working as Technical / R&D Project Leader at Avantium

Scientific Societies: European network of FURAN based chemicals and materials FOR a Sustainable development (cost Action CA18220, [LINK](#))

Links related to Nejib's Profile:     

Language(s): English (Proficient user), French (Independent user), Arabic (Mother tongue)

Ph.D. in Polymer Chemistry

Master's Degree in Synthesis and Reactivity in Organic Chemistry

JOB-RELATED SKILLS AND EXPERTISE:

- Highly skilled Polymer Scientist with both professional academic and industrial experience (+ 8 years), international research experience (in 6 EU countries), and a proven track record in developing biobased polyesters for use as sustainable packaging materials
- Experienced researcher with well-established international network and work experience in several leading European research groups (Greece, Sweden, Luxembourg, Italy, Germany, France).
- Strong **project management** + (team) supervision / leadership skills, problem-solving, and effective decision-making, along with strong communication skills with stakeholders (e.g., internally with the commercial team, regulatory team, or externally with clients), acquired through my current role at Avantium company as R&D Project Leader / Polymer Scientist, and through professional courses and certifications (certificate attached to CV).

Analytical Skills : Advanced expertise in spectroscopic techniques (FTIR, NMR, UV-Vis, Raman), Chromatographic analysis (HPLC, GC-MS, LC-MS, SEC), Polymer & material identification (thermal analysis, DSC, TGA, DMA), Data interpretation & reporting for complex analytical studies.

- A **recognized expert** in developing biobased polyester-based packaging materials (Bioplastics based on 2,5-furandicarboxylic acid):
 - ✦ I've published **27 scientific publications** in high-impact peer-reviewed journals, with ~ 1260 citations and an h-index of 22 "Scholar"
 - ✦ 15 communications at 14 international conferences (in Sweden, France, Italy, Greece, Belgium, Portugal)
 - ✦ **AWARDS:** Best Presentation Award at the IUPAC Postgraduate Summer School on Green Chemistry - Venice, Italy (July 13, 2018), awarded by L'Oréal Paris and Eni Groups ([LINK](#)).
 - ✦ Guest Editor of **Special Issue** "Development of High-Performance Biobased Polyesters" in Polymers journal (Q1)
 - ✦ **Scientific societies:** Member of European network of FURan based chemicals and materials FOR a Sustainable development "FUR4Sustain" (COST Action CA18220, [LINK](#))
 - ✦ Selected to be one of 24 scientists, assembled from across 4 continents, to join the American Chemical Society (ACS) Journal Biomacromolecules as members of the new Early Career Board ([LINK 1](#), [LINK 2](#)).
 - ✦ Active as **Reviewer** of scientific peer-reviewed journals as a **subject matter Expert** "in the field of renewable polyester development" ([LINK](#)): (Elsevier Q1 journals): Polymer Testing, Materials Today Chemistry, Polymer Degradation and Stability, International Journal of Biological Macromolecules, Reactive and Functional Polymers, Journal of Supercritical Fluids. Wiley Q1 journal: Advanced Functional Materials journal. (MDPI Q1 journals): Polymers, International Journal of Molecular Sciences, etc.
- In-depth knowledge and technical understanding of the Design, Synthesis, and Study of fully biobased polymers, mainly homopolyesters, copolyesters, polyester blends, functionalized hyperbranched polyesters, polyurethanes derived from 2,5-furandicarboxylic acid (FDCA) and other renewable monomers (isosorbide, vanillic acid, succinic acid, among others).
- Chemical Recycling of post-consumer 'polyester type' plastics to value added circular materials / Integrating plastic waste in the circular economy / plastic waste management.
- Excellent command of several synthesis techniques of polymers: Melt Polycondensation, Solid state Polycondensation, Polymer Blending, Ring-Opening Polymerization, In Situ polymerization, etc.
- Investigation of crystallization, melting behavior, mechanical performance, and "enzymatic / in soil" biodegradability of renewable polymers / Organic chemistry / (Microwave-assisted) organic synthesis.
- **Teaching experience** of Master's students (104 h) at KTH Royal Institute of Technology in Stockholm, Sweden (certificate attached to CV).
- **Effective supervision** skills (gained through my experience as co/supervisor of BSc, MSc and PhD students at Universities + my supervision of a small team of technologists at Avantium).

PROFESSIONAL AND WORK EXPERIENCE

01/12/2023 to present Technical / R&D Project Leader, Polymer Scientist (Permanent)
AVANTIUM company ([LINK](#)) Amsterdam, Netherlands

Key responsibilities:

- Lead R&D projects across all stages, from ideation and planning to execution and implementation
- Develop sustainable plastic packaging materials: renewable co/polyesters derived from 2,5-furandicarboxylic acid (FDCA), emphasizing poly(ethylene furanoate)(PEF).
- Drive industrial innovation by delivering creative, effective, and patentable solutions to complex technical product challenges, contributing to Avantium's IP portfolio.
- Foster collaborations between academia (universities and research institutes) and Avantium for joint R&D projects (e.g., [Horizon Europe GREEN-X project](#)):

– Technical Project Coordinator of Avantium's participation in GREEN-X: Advancing Sustainable Polymer Innovation through Circular Feedstocks, Greener Materials, and Industrial Collaboration (March 2026 – Feb 2030), leading **WP2 – Thermoplastic Polyester Technologies** in collaboration with Mines Paris PSL University (France) and Aristotle University of Thessaloniki (AUTH, Greece).

- Collaborate closely with cross-functional teams—including commercial, regulatory, IP, and application teams—to ensure R&D projects align with business objectives and product development strategy.
- Serve as Scientific Advisor in product development, leveraging fundamental insights to deliver impactful solutions that optimize PEF-based packaging properties.

Key achievement:

- **Sole inventor of filed patent application** — advancing biobased polyesters / poly(ethylene furanoate) (PEF) materials (March 2026, Patent Pending; Avantium – The Netherlands).

- 01/04/2023-30/11/2023 **Researcher**
Institute Charles Gerhardt Montpellier (ICGM), French National Centre for Scientific Research ([CNRS](#)), France
Research project: Development of reversibly designed crosslinked polymers based on dynamic covalent chemistry
- 01/11/2021-30/11/2022 **Researcher**
Department of fibre and Polymer Technology, KTH Royal Institute of Technology ([LINK](#)), Stockholm, Sweden
Research projects: - Microwave-assisted Chemical Recycling of post-consumer PET bottles into recyclable high-performance polyimines with exceptional mechanical performance, **significantly outperforming most of available commodity plastics in the market!** (research output: [LINK](#))
-Development of highly transparent polyurethane thermostets, prepared from 100% renewable branched polyesters, with “on demand” tunable mechanical and thermal properties and enzymatic degradability (research output: [LINK](#)).
- In 2022: Teaching “Polymer Physics course” (KF2140) to first-year Master students (104 hours) at KTH
- 01/06/2021-31/10/2021 **Research Scientist**
Helmholtz-Zentrum Hereon ([LINK](#)), Berlin, Germany
Research activities: Synthesis and characterization of multifunctional polyester-based biomaterials for adaptive and active polymer systems
- 01/03/2019-23/04/2021 **Junior Research & Technology Associate**
Department of Materials Research and Technology, Luxembourg Institute of Science and Technology ([LIST](#)), Luxembourg.
Research project: New biopolymers based on renewable building blocks from catalytic deoxygenation of hemicelluloses – CATBIOSE.
- 01/04/2018-31/10/2018 **Postdoctoral Fellowship**
BIKIARIS Group ([LINK](#)), Laboratory of Polymer Chemistry and Technology, Aristotle University of Thessaloniki, Greece
Research project: *Furan-based Polyesters*
Main activities (supervision: Prof. Dimitrios Bikiaris, [LINK](#)): Design, Synthesis, and Study of new fully biobased Furanoate (Co-)polyesters and polyester blends from renewable resources-derived monomers
- 01/07/2017-31/03/2018 **Temporary Research Fellowship**
BIKIARIS Group, Aristotle University of Thessaloniki, Greece
Main activities (project: Furan-based Polyesters): Synthesis, investigation of crystallization behavior, and thermal analysis of biobased Furanoate (Co-)polyesters and sustainable polyester blends
- 16/09/2016-30/06/2017 **Mobility grant within the frame of Erasmus+ International Programme**
BIKIARIS Group, Aristotle University of Thessaloniki, Greece
Main activities: Different studies have been conducted on biobased poly(ethylene furanoate) polyester (**PEF**)
- 01/05/2016-31/07/2016 **Research Assistant:** Polymer Engineering Group, University of Padova, Italy
Main activities (supervision: Prof. Alessandra Lorenzetti, [LINK](#)): Synthesis of rigid polyurethane foam insulation panels from new polyols based on renewable resources.
Funding source: National Interuniversity Consortium of Materials Science and Technology, Italy
- 29/01/2016-30/04/2016 **PhD Internship 3**
Polymer Engineering Group, University of Padova, Italy
Main activities: Synthesis of thermoplastic polyurethanes from new aromatic monomers derived from isosorbide
- 10/05/2015-10/07/2015 **PhD Internship 2**
Polymer Engineering Group, University of Padova, Italy
Main activities: Microwave-assisted synthesis of new biobased chiral monomers derived from isosorbide
- 01/05/2014-30/06/2014 **PhD Internship 1**
Department of Civil, Chemical, Environmental, and Materials Engineering, University of Bologna, Italy
Main activities (supervision: Prof. Annamaria Celli, [LINK](#)):
- Synthesis of new Isosorbide-based polyesters by melt polycondensation procedure

- Learning of new synthesis techniques and physicochemical analysis method specific for polymers

AWARDS & ACHIEVEMENTS

- 7-13/07/2018 Fully Funded Scholarship to attend [IUPAC Postgraduate Summer School on Green Chemistry](#) – Venice, Italy
- 13/07/2018 **Best Presentation Award** at the IUPAC Postgraduate Summer School on Green Chemistry – Venice, Italy, awarded by **L'Oréal** Group and **Eni** Group. ([LINK](#))
Presentation Title: *Synthesis of New Eco-Friendly Copolyesters From Fully Renewable Resources: Poly(ϵ -Caprolactone-Co-Pentylene 2,5-Furandicarboxylate)*
- Research project Furan-based polyesters (09.2016 – 10.2018): Investigation of polymerization conditions and catalysts for a variety of Furanoate polyesters, copolyesters and nanocomposites and how important parameters like thermal transitions, thermal degradation, biodegradability and mechanical properties are influenced.
Collaborators: D.N. Bikiaris, G.Z. Papageorgiou, **N. Kasmi**, Z. Terzopoulou, L. Papadopoulos.

EDUCATIONAL QUALIFICATIONS

- Jan 2014- PhD in polymer chemistry (Merit: Very Honorable)
- Mar 2018 University of Monastir, Tunisia
PhD dissertation Title: *Valorisation of Isosorbide: Synthesis of new functional polymers*
Doctoral research activities were supervised by Professor Dimitrios Bikiaris from Aristotle University of Thessaloniki, Greece ([LINK](#))
- Sep 2011- Master's degree in synthesis and reactivity in organic chemistry
- Nov 2013 University of Monastir, Tunisia
Master Thesis Title: *Synthesis and characterization of new functional structures based on isosorbide*
With Distinction (16.50 /20). Final average mark (M1 +M2): 13.17/20. Number of acquired credits: 114/120
- Sep 2008- Bachelor's degree in chemistry
- Jun 2011 University of Monastir, Tunisia
Number of acquired credits: 166/180 – (Rank: First year: 5/55, Second year: 7/59, Third year: 6/67)

PRESENTATIONS AT INTERNATIONAL CONFERENCES

- 1-3/07/2026 **Invited Speaker** at the [Milan Polymer Days International Congress \(MIPOL2026\)](#) – Milan, Italy ([Link](#))
- Engineering crystallization kinetics in poly(ethylene furanoate) (PEF) through trace-level modulation
- 1-4/06/2026 Oral communication at the [Bordeaux Polymer Conference \(BPC 2026\)](#) – Bordeaux, France
- Effect of diethylene glycol (DEG) on the crystallization kinetics of poly(ethylene furanoate) (PEF)
- 3-5/04/2024 [FUR4Sustain COST Action conference](#) – Nice, France (Representing [Avantium](#))
COST Action CA18220: European network of FURan based chemicals and materials FOR a Sustainable development
- 1-3/06/2022 1 communication at "[Nordic Polymer Days 2022](#)" – Gothenburg, Sweden
- Designed from Recycled PET packaging waste. **N. Kasmi**, M. Hakkarainen
- 26-29/09/2021 1 communication at "[5th European Conference on Green and Sustainable Chemistry - 5th EuGSC](#)" –Thessaloniki, Greece
- Tuning thermal properties and biodegradability of Isosorbide-based polyester by compositional control through copolymerization with 2,5-furandicarboxylic acid. **N. Kasmi**, Z. Terzopoulou, Y. Habibi, D.N. Bikiaris
- 15-17/07/2020 1 communication at "[Milan Polymer Days Congress - MIPOL2020](#)" – Milan, Italy
- Solvent-free synthesis of new fully biobased diol monomers through industrially viable approach: Toward new insights into the valorization of vanillic acid-based polyesters. **N. Kasmi**, G.Z. Papageorgiou, D.N. Bikiaris
- 21-25/10/2019 1 communication at "[6th EPNOE International Polysaccharide Conference](#)" – Aveiro, Portugal
- Novel Fully Biobased Non-Isocyanate Polyurethanes from Hemicelluloses.
N. Kasmi, R. Dieden, D. da Silva-Perez, Y. Habibi
- 9-14/06/2019 1 communication at "[European Polymer Congress 2019 \(EPF 2019\)](#)" – Hersonissos Heraklion Crete, Greece
- From 2,5-furandicarboxylic acid to vanillic acid novel biobased polyesters with promising properties.
N. Kasmi, G.Z. Papageorgiou, D.N. Bikiaris
- 11-13/03/2019 1 communication at "[Milan Polymer Days Congress - MIPOL2019](#)" – Milan, Italy
- Synthesis, structure, and properties of novel biobased polyesters obtained from furan dicarboxylic acid and new fully renewable diols based on vanillic acid. **N. Kasmi**, G.Z. Papageorgiou, D.N. Bikiaris
- 30/09/2018- 03/10/2018 1 communication at "[12th Hellenic Polymer Society International Conference 2018](#)" – Ioannina, Greece
- Synthesis of new eco-friendly copolyesters from fully renewable resources: poly(ϵ -caprolactone-co-hexamethylene 2,5-furandicarboxylate). **N. Kasmi**, G.Z. Papageorgiou, D.N. Bikiaris
- 7-13/07/2018 1 communication at "[IUPAC POSTGRADUATE SUMMER SCHOOL ON GREEN CHEMISTRY](#)" – Venice, Italy
- Synthesis of new eco-friendly copolyesters from fully renewable resources: poly(ϵ -caprolactone-co-pentylene 2,5-furandicarboxylate). **N. Kasmi**, G.Z. Papageorgiou, D.N. Bikiaris

- 28-31/05/2018 1 communication at "Bordeaux Polymer Conference" - BPC 2018 - Bordeaux, France
- Synthesis of new fully biobased random copolyesters: poly(hexamethylene-co-isosorbide 2,5-furandicarboxylate). N. Kasmi, G.Z. Papageorgiou, D.N. Bikiaris
- 11-13/9/2017 3 communications at "6th International Conference on Biodegradable and Biobased Polymers" - BIOPOL 2017- Mons, Belgium
- Synthesis of new fully renewable resources-based copolyesters: poly(1,4-cyclohexanedimethanol-co-isosorbide 2,5-furandicarboxylate). N. Kasmi, M. Majdoub, G.Z. Papageorgiou, D.N. Bikiaris
 - Solid-state polymerization of poly(ethylene furanoate) biobased polyester: effect of catalyst type on molecular weight increase. N. Kasmi, M. Majdoub, G.Z. Papageorgiou, D.N. Bikiaris
 - Crystallization and melting behavior of Poly(ethylene furanoate): Effects of molecular weight and nanofillers. G.Z. Papageorgiou, N. Kasmi, V. Mandraki, S. Exarhopoulos, D.N. Bikiaris
- 2-7/07/2017 1 communication at "European Polymer Federation, EPF Lyon 2017" – Lyon, France
- Poly(ethylene-2,5-furanoate) (PEF); A promising polyester for food packaging applications: from research synthesis to reality. D.N. Bikiaris, V. Tsanaktis, Z. Terzopoulou, M. Nerantzaki, A. Chondroyiannis, E. Karakatsianopoulou, N. Kasmi, G.Z. Papageorgiou
- 15-16/2/2017 1 communication at "Milan Polymer Days, MIPOL2017" – Milan, Italy
- New thermally stable Isoidide-derived diols based on Isosorbide for the preparation of thermoplastic polyurethanes: Microwave-assisted synthesis and optimization. N. Kasmi, M. Majdoub, M. Modesti, A. Lorenzetti
- 3-7/5/ 2015 1 communication at "International Symposium on Green Chemistry" - ISGC2015 - La Rochelle, France
- Synthesis and characterization of new polyurethanes based on isosorbide. N. Kasmi, N. Hammami, M. Majdoub

PATENTS

- March 2026 • **Sole Inventor of filed patent application** — advancing biobased polyesters / poly(ethylene furanoate) (PEF) materials (March 2026, Patent Pending; Avantium – The Netherlands).

REFEREED JOURNAL PUBLICATIONS ([LINK](#))

27 peer-reviewed publications | h-index ([Google Scholar](#)): **22** | > **1260 citations** |

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

- (27) N. Kasmi*, Y. Chebbi, A. Lorenzetti, M. Hakkarainen*. Highly transparent polyurethane thermosets with tunable properties and enzymatic degradability derived from polyols originating from hemicellulosic sugars, *Green Chemistry* **2023**, 25, 9908-9925. [LINK](#)
- (26) N. Kasmi, E. Bäckström, M. Hakkarainen*. Open-loop recycling of post-consumer PET to closed-loop chemically recyclable high-performance polyimines, *Resources, Conservation and Recycling* **2023**, 193, 106974. [LINK](#)
- (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 poly(isosorbide azelate) 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](#)
- (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. 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](#)
- (11) N. Pouloupoulou, N. Kasmi, M. Siampani, Z.N. Terzopoulou, D.N. Bikiaris, D.S. Achilias, 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-furandicarboxylate)/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. 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](#)
- (5) N. Kasmi, M. Majdoub, G.Z. Papageorgiou*, D.S. Achilias, 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](#)