

▶ **Three written research proposals ready for implementation or submission to EU/national funding agencies**

h-Index (Google Scholar): **16**, Citations: **673**

Refereed journal publications: 25 Articles + **1** submitted paper + **1** paper to be submitted

Complete publications list [here](#) (ACS Sustainable Chemistry and Engineering, Polymer Chemistry, Green Chemistry, Polymer Degradation and Stability, Biomacromolecules, International Journal of Biological Macromolecules, European Polymer Journal, Journal of Analytical and Applied Pyrolysis, Polymers...)

Top Co-authors: Prof. Dimitrios BIKIARIS (**21**) ([LINK](#)) Prof. George PAPAGEORGIOU (**20**) ([LINK](#))

▪ Topical Advisory Panel Member of Polymers (Q1) > Guest Editor of [Special Issue "Development of High-Performance Biobased Polyesters"](#) in Polymers (Q1, IF: 4.967)

▪ **Journals Reviewer:** (Elsevier): Polymer Degradation and Stability, Polymer Testing, Materials Today Chemistry, Reactive and Functional Polymers, (MDPI): Polymers, Materials, molecules ([here](#))

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



EXPERTISE & JOB-RELATED SKILLS: Development of Furan-based packaging materials

- Deep knowledge of Design, Synthesis, and Study of fully biobased polymers, mainly Co/polyesters derived from **2,5-furandicarboxylic acid** (FDCA)
- Excellent command of several synthesis techniques of Polyesters: Melt Polycondensation, Solid state Polycondensation, Polymer Blending, In Situ polymerization, ROP, etc.
- Microwave-assisted Chemical Recycling of *post-consumer "polyester-type"* plastics
- Integrating plastic waste in the circular economy / Sustainable **Furan**-based polyesters, copolyesters, polyester Blends, and Isocyanate-free polyurethane thermosets / Investigation of crystallization, melting behaviour, and biodegradability of Co/polyesters / Organic chemistry/ MW-assisted organic synthesis
- Teaching experience / Effective supervision skills (through my experience as co-supervisor of MSc and PhD students)

AWARDS & ACHIEVEMENTS (Details [here](#))

- July 13, 2018 **Best Presentation Award** at the **IUPAC Postgraduate Summer School on Green Chemistry - Venice, Italy**, awarded by **L'ORÉAL** Group and **Eni** Group

"Synthesis of New Eco-Friendly Copolyesters From Fully Renewable Resources: Poly(ϵ -Caprolactone-Co-Pentylene 2,5-Furandicarboxylate)"

- 7-13/07/2018 Fully Funded Scholarship to attend IUPAC Postgraduate Summer School on Green Chemistry

RESEARCH PROJECT **Furan-based polyesters** ([LINK](#))

PRESENTATIONS AT INTERNATIONAL CONFERENCES (Details [here](#))

- **15** communications at **13** international conferences (in Sweden, France, Italy, Greece, Belgium, Portugal)

Job-related Keywords : Bioplastics, biobased (co)/polyesters, 2,5-Furan dicarboxylic acid, Isosorbide, vanillic acid, Melt polycondensation, branched polyesters, FDCA, Biobased Polymers, Isocyanate-free polyurethane, poly(ethylene furanoate), crystallization behavior, polyester recycling, plastic in circular bioeconomy, Polyester Blends, FURAN-packaging, PEF, solid-state polycondensation, biodegradability, structure-property relationship, thermal properties, Ring opening polymerization, etc.

PROFESSIONAL & WORK EXPERIENCE (Details [here](#))

- Starting from Nov. 2021

In 2022: Teaching "**Polymer Physics course**" (KF2140) to First-year Master students (104 hours) at **KTH**

- June 2021 - October 2021

- March 2019 - April 2021

- April - October 2018

- July 2017 - March 2018

- Sep. 2016 - Jun. 2017

- April - July 2016

- May 2014 - April 2016

Researcher

KTH Royal Institute of Technology ([LINK](#)), Stockholm- Sweden
Research activities: Microwave-assisted chemical recycling of post-consumer "polyester type" plastics and turning them into high-performance recyclable polymers

Research Scientist

Helmholtz-Zentrum Hereon ([LINK](#)), Berlin - Germany

Junior Research & Technology Associate

Research project: New biopolymers based on renewable building blocks from catalytic deoxygenation of hemicellulose
Luxembourg Institute of Science and Technology (LIST), Luxembourg

Postdoctoral Fellowship

[BIKIARIS Group](#) - Aristotle University of Thessaloniki, Greece
Research project: Furan-based Polyesters ([LINK](#))

Temporary Research Fellowship

[BIKIARIS Group](#) - Aristotle University of Thessaloniki, Greece

Mobility grant within the frame of **Erasmus+** International Programme

[BIKIARIS Group](#) - Aristotle University of Thessaloniki, Greece

Research Assistant University of Padova, Italy

3 PhD Internships

University of Padova and Bologna University, Italy

EDUCATIONAL QUALIFICATIONS

- March 2018

PhD in Polymer chemistry (Merit: Very honorable)

PhD dissertation Title: **Valorisation of Isosorbide: Synthesis of new functional polymers**
PhD Supervisor: Prof. **Dimitrios BIKIARIS** ([LINK](#))
Aristotle University of Thessaloniki, Greece

- November 2013

University of Monastir, Tunisia

- June 2011

University of Monastir, Tunisia

Master's Degree in Organic Chemistry

Major: **Synthesis and reactivity in Organic chemistry**
Master Thesis Title: **Synthesis and characterization of new functional structures based on Isosorbide**

Bachelor's degree in chemistry

(Rank: First year: **5/55**, Second year: **7/59**, Third year: **6/67**)