

➤ **Three written research proposals** ready for implementation or submission to funding agencies

Skype: NEJIB KASMI

h-Index (Google Scholar): **14**, Citations: **592**

Refereed journal publications: 25 Articles + **2** Manuscripts and **1** Review 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)

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

▪ **Journals Reviewer:** (Elsevier): Polymer Degradation and Stability, Polymer Testing, Materials Today Chemistry, (MDPI): Polymers, Materials, molecules. | Reviewer Board Member of MDPI ([here](#))



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

- Deep knowledge of Design, Synthesis, and Study of fully biobased polymers, mainly Co/polyesters
- Excellent command of several synthesis techniques of Polyesters: Melt Polycondensation, Solid state Polycondensation, Polymer Blending, In Situ polymerization, ROP, etc.
- Sustainable **Furan**-based polyesters, copolyesters, polyester Blends, and Isocyanate-free polyurethane / Investigation of crystallization, melting behaviour, and biodegradability of Co/polyesters / Microwave-assisted chemical recycling of plastic "polyester" / Bioplastics in circular economy / Organic chemistry/ MW-assisted organic synthesis
- Effective supervision skills (acquired through my experience as co-supervisor of BSc, MSc and PhD students), etc.

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 France, Italy, Greece, Belgium, Portugal, Sweden)

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](#))

- November 2021 to present **Researcher**

From 05/09/2022: Teaching of "Polymer Physics course" (KF2140) to 1st-year master students (50 hours)

KTH Royal Institute of Technology ([LINK](#)), Stockholm - Sweden
Ongoing research: *Microwave-assisted chemical recycling of post-consumer plastic (polyester type) and turning it into value-added polymers*

- June 2021 - October 2021 **Research Scientist**

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

- March 2019 - April 2021

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

- April - October 2018

Postdoctoral Fellowship

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

- July 2017 - March 2018

Temporary Research Fellowship

BIKIARIS Group - Aristotle University of Thessaloniki, Greece

- Sep. 2016 - Jun. 2017

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

BIKIARIS Group - Aristotle University of Thessaloniki, Greece

- April - July 2016

Research Assistant University of Padova, Italy

- May 2014 - April 2016

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

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**

- June 2011

University of Monastir, Tunisia

Bachelor's degree in chemistry

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