One page resume Nejib KASMI | Mail: nejibkasmi@gmail.com | Current address: Amsterdam, Netherlands | Scopus PhD in Polymer Chemistry | Website: https://nejibkasmi.com/ | Tel: +31617357898 | (Detailed CV: here) |

 Highly skilled Polymer Scientist, Development of sustainable Polyesters from renewable resources Researcher with strong international network and work experience in several leading European research groups Peer-reviewed articles: 27 (Complete publications list here) | h-Index: 18, Citations: 865 Top Co-authors: Prof. Dimitrios BIKIARIS (21) (LINK) Prof. George PAPAGEORGIOU (20) (LINK) Member of ACS Biomacromolecules Early Career Board (2024)
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Scientific Societies: European network of FURAN based chemicals and materials FOR a Sustainable development (COST Action CA18220, LINK) - Reviewer of Elsevier Q1 journals (details)

Guest Editor of <u>Special Issue</u> "Development of High-Performance Biobased Polyesters" in Polymers (Q1)



 12/2023 –present R&D project Leader / Polymer Scientist Avantium company (LINK) - Amsterdam, Netherlands

04/2023 - 11/2023 Researcher Institute Charles Gerhardt Montpellier (CNRS) - Montpellier, France

• 11/2021 - 11/2022 Researcher

KTH Royal Institute of Technology, Stockholm Sweden Research projects: - Microwave-assisted chemical recycling of postconsumer "polyester type" plastics (Research output: LINK)

- Highly transparent biobased polyurethane thermosets with "on demand" tunable properties and enzymatic degradability (LINK).

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

06/2021 - 10/2021 **Research Scientist** Helmholtz-Zentrum Hereon, Berlin - Germany Research project: Synthesis of multifunctional polyester-based biomaterials for adaptive and active polymer systems

 03/2019 – 04/2021 Jr. Research & Technology Associate Luxembourg Institute of Science and Technology, Luxembourg Research project: New biopolymers based on renewable building blocks from catalytic deoxygenation of hemicellulose

ing	O4/2018 – 10/2018 Postdoctoral Fellowship <u>BIKIARIS Group</u> - Aristotle University of Thessaloniki, Greece Research project: <i>Furan-based Polyesters</i>
ate	• 07/2017 – 03/2018 Temporary Research Fellowship
	BIKIARIS Group - Aristotle University of Thessaloniki, Greece
ree vior,	• 09/2016 – 06/2017 Mobility Erasmus+ grant BIKIARIS Group - Aristotle University of Thessaloniki, Greece
sea is	• 04/2016–07/2016 Research Assistant - Padova University, Italy
13	• 05/2014 – 04/2016 3 PhD Internships
•	Universities of Padova and Bologna, Italy
•	EDUCATIONAL QUALIFICATIONS Monastir University, Tunisia
	• 03/2018 PhD in Polymer chemistry (Merit: Very honorable)
	PhD dissertation: Valorisation of Isosorbide: Synthesis of new functional polymers
	 11/2013 Master's Degree in Organic Chemistry
	06/2011 Bachelor's degree in chemistry

A solid scientific background and proven track-record in developing fully biobased polyesters — made from renewable monomers — for sustainable Packaging Materials

EXPERTISE /JOB-RELATED SKILLS: Development of sustainable polyester packaging Materials Bioplastics based on 2,5-furandicarboxylic acid Chemical recycling of plastics waste

*In-depth knowledge and technical understanding of the Design, Synthesis, and Study of fully biobased polymers, mainly homopolyesters, copolyesters, polyester blends and functionalized branched polyesters derived from 2,5-furandicarboxylic acid (FDCA) and other renewable monomers (isosorbide, vanillic acid,...).

Chemical recycling of post-consumer 'polyester-type' plastics to value added circular materials by utilizities dynamic covalent chemistry/Integrating plastic waste in the circular economy/plastic waste management.

* Excellent command of several synthesis techniques of Polyesters: Melt Polycondensation, Solid st Polycondensation, Polymer Blending, Ring-Opening Polymerization, In Situ polymerization, etc.

Furan-based Bioplastics: Sustainable polyesters, copolyesters, polyester Blends, Isocyanate-fill polyester-urethane networks derived from FDCA / Investigation of crystallization, melting behav mechanical performance, and "enzymatic / in soil" biodegradability of renewable (Co-)polyesters / biobas branched polyesters and polyester-urethanes / Organic chemistry / (Microwave-assisted) organic synthesi

Teaching experience of Master's students (104 h) at KTH Royal Institute of Technology in Stockholm Effective supervision skills (acquired through my experience as co-supervisor of MSc and PhD students)

PRESENTATIONS AT INTERNATIONAL CONFERENCES (Details here)

• 15 communications at 14 international conferences (in Sweden, France, Italy, Greece, Belgium, Portugal) AWARDS (Details here): • July 13, 2018 Best Presentation Award at the IUPAC Postgraduate Summer School on Green Chemistry - Venice, Italy, awarded by LORÉAL and Eni Groups.



