

Curriculum Vitae

Personal Information

Name: Eleni Psochia
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Education

- 2020-Today** PhD candidate - Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki
- 2018-2020:** **Master's degree:** Polymer Chemistry and Technology and Nanocomposite Materials , Department of Chemistry, Aristotle University of Thessaloniki, Greece (**9.28/10.00**)
Dissertation: Synthesis and Characterization of PLLA nanocomposite films with encapsulated carvacrol and surface nanotopography for antimicrobial applications (*under the supervision of Prof. Dimitrios N. Bikiaris*)
- 2014-2018:** **Bachelor's degree:** Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece (**7.33/10.00**)
Dissertation: Microparticles of PLLA with encapsulated pheromone for the treatment of olive trees against the olive fruit fly (*under the supervision of Prof. Dimitrios N. Bikiaris*)

Work Experience

- 09/2020–Today** “Development of innovative nanocellulose-reinforced composite wood products with advanced hydrophobic and antimicrobial properties (CELL4GLUE)” Aristotle University of Thessaloniki (Coordinator), CHIMAR S.A., NANOTYPOS S.A. Funding: «Special Actions “Aquaculture” – “Industrial Materials” – “Open Innovation In Culture“», co-financed by EU – European Regional Development Fund and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation (EPAnEK 2014-2020) (project code: T6YBII-00341), 2020-2023. **Project Coordinator and Principal Investigator for AUTH.**

09/2020-Today “Innovative (nano)composite bio-polymeric coatings for the protection and the upgrading of marbles”

09/2019-12/2019 Catalan Institute of Nanoscience and Nanotechnology (ICN2) (Barcelona, Spain)

In 2019, I had the chance to conduct an ERASMUS internship for 4 months in ICN2, where also a part of experiments of my Master’s thesis took place. The main skills I obtained through my training there, were:

- Thermal Nanoimprint Lithography (T-NIL)
- Characterization of nanoimprinted surfaces
- SEM imaging training
- Organization and presentation skills

07/2018-08/2018 Chimar Hellas, S.A (Thessaloniki, Greece)

During the summer of 2018, I conducted my 2-month voluntary internship in Chimar Hellas S.A. The company provides binder technologies to wood - based panel industries all over the world. It specializes on the resin industry, mostly on the production of polyester resins which are intended for wood industry applications. The primary duties assigned to me during my internship were:

- Qualitative and Quantitative resin analysis
- Testing the resins’ mechanical properties
- Plywood and MDF panel production
- Resin synthesis

Publications in international peer-reviewed journals

1. Bottom-Up Development of Nanoimprinted PLLA Composite Films with Enhanced Antibacterial Properties for Smart Packaging Applications

<https://doi.org/10.3390/macromol1010005> Psochia, E.; Papadopoulos, L.; Gkiliopoulos, D.J.; Francone, A.; Grigora, M.-E.; Tzetzis, D.; de Castro, J.V.; Neves, N.M.; Triantafyllidis, K.S.; Torres, C.M.S.; Kehagias, N.; Bikiaris, D.N. Bottom-Up Development of Nanoimprinted PLLA Composite Films with Enhanced Antibacterial Properties for Smart Packaging Applications. *Macromol* **2021**, *1*, 49-63. <https://doi.org/10.3390/macromol1010005>

2. Comparative study of crystallization, semicrystalline morphology, and molecular mobility in nanocomposites based on polylactide and various inclusions at low filler loadings

<https://doi.org/10.1016/j.polymer.2021.123457> Papadopoulos, L.; Klonos, P.A.; Terzopoulou, Z.; Psochia, E.; Sanusi, O.M.; Hocine, N.A.; Benelfellah, A.; Giliopoulos, D.; Triantafyllidis, K.; Kyritsis, A.; et al. Comparative study of crystallization, semicrystalline morphology, and molecular mobility in nanocomposites based on polylactide and various inclusions at low filler loadings. *Polymer (Guildf.)* **2021**, *217*, 123457

3. Synthesis and Characterization of Unsaturated Succinic Acid Biobased Polyester Resins

<https://doi.org/10.3390/app11030896> Papadopoulos, L.; Malletzidou, L.; Patsiaoura, D.; Magaziotis, A.; Psochia, E.; Terzopoulou, Z.; Chrissafis, K.; Markessini, C.; Papadopolou, E.; Bikiaris, D.N. Synthesis and Characterization of Unsaturated Succinic Acid Biobased Polyester Resins. *Appl. Sci.* **2021**, *11*, 896. <https://doi.org/10.3390/app11030896>

4. Synthesis of Dacus Pheromone, 1,7-Dioxaspiro[5.5]Undecane and Its Encapsulation in PLLA Microsphere

<https://www.mdpi.com/2073-4395/10/7/1053> Zisopoulou, S.A.; Chatzinikolaou, C.K.; Gallos, J.K.; Ofrydopoulou, A.; Lambropoulou, D.A.; Psochia, E.; Bikiaris, D.N.; Nanaki, S.G. Synthesis of Dacus Pheromone, 1,7-Dioxaspiro[5.5]Undecane and Its Encapsulation in PLLA Microspheres for Their Potential Use as Controlled Release Devices. *Agronomy* **2020**, *10*, 1053.

Awards

- Best Internship Award, Department of Chemistry, Aristotle University of Thessaloniki, Academic Year 2017- 2018

Personal Skills

Languages

- Greek (Native language)
- English (Examination For The Certificate Of Proficiency In English Of Michigan (ECPE)-C2, Certificate Of Proficiency In English (CPE) Of Cambridge-C2)
- German (Goethe Zertifikat-C1)

Computer skills

MS Office Suite (Word, Excel, PowerPoint, Internet), Origin Lab, ChemOffice, ChemDraw

Communication skills

Being a YMCA camper for over 14 years, I had the chance to communicate and cooperate with many and different kinds of people, while nourishing at the same time my social skills and team work.

Organizational / managerial skills

As a YMCA staff member for 5 years, I managed to plan and organize a lot of activities, as well as to improve my team leadership skills. More specifically, I was a team leader for 3 years and head of the camp's athletic activities for another 2 years.

Conferences

1. **E. Psochia**, A. Margellou, D.J. Gkiliopoulos, E. Karagiannidis, E. Athanasiadou , N. Kehagias , K.S. Triantafyllidis, "Production and use of nanocellulose for the reinforcement of epoxy and formaldehyde-based resins", Symposium "Nanocellulose Science and Engineering Bonding Together Basic and Applied Research", American Chemical Society (ACS) Spring 2022, San Diego, USA, March 20-24, 2022
2. **E. Psochia**, A. Margellou and K.S. Triantafyllidis, "Production of (nano)cellulose from agricultural and lignocellulosic biomass", Hellenic Polymer Society International Conference (Polyconf13), Athens, Greece, December 12-16, 2021
3. **E. Psochia**, E. Karagiannidis, E. Athanasiadou, A. Hatjiissaak and K.S. Triantafyllidis, "Nanocellulose production by mechanical treatment and utilization as green additive in urea formaldehyde (UF) resins", EuChemS Conference on Green and Sustainable Chemistry (5th EuGSC), Virtual Conference, Thessaloniki, Greece, 26-29 September 2021
4. **E. Psochia**, S. Nanaki, A. Ofrydopoulou, M. Papageorgiou, D. Lambropoulou, D. N. Bikiaris "Microparticles of PLLA with encapsulated pheromone for the treatment of olive trees against the olive fruit fly", European Polymer Congress (epf2019), Crete, Greece, June 9-14, 2019