

Curriculum Vitae

Name: Patelis Nikolaos

Title: Doctor of Philosophy (Ph.D.), Chemist

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ACADEMIC & TEACHING BACKGROUND

- 2022:** Post-doctorate fellow in Professor Hadjichristidis Nikos research Group in King Abdullah University of Science and Technology (KAUST) Catalysis Center.
- 2020:** Doctor of Philosophy (Ph.D.) in Polymer Chemistry at the Department of Chemistry, National and Kapodistrian University of Athens, Industrial Chemistry Laboratory (Polymer Lab).

PhD Thesis Title: *“Synthesis of well defined polymeric / organic nanoparticles and study of their effect on the properties of non-linear polymers in solution and bulk”*.
PhD Supervisor: Prof. G. Sakellariou
- 2015:** M.Sc. in “Polymer Science and its applications in industry” National and Kapodistrian University of Athens, Chemistry Department, Industrial Chemistry Laboratory (Polymer Lab).

M.Sc. Thesis Title: *“Synthesis and characterization of Polystyrene Ring Polymers”*. Research Supervisor: Prof. G. Sakellariou.
- 2005:** Undergraduate Studies at the Department of Chemistry, National and Kapodistrian university of Athens. Physical Chemistry Laboratory, Subject: *“Composition effect of water-formamide mixture on the transactional surfactive substance behavior”*.
Research Supervisor: Prof. V.Havredaki.

Teaching Assistant

“Polymer Science Laboratory” (for undergraduate students), National and Kapodistrian University of Athens, Chemistry Department, Industrial Chemistry Laboratory (Polymer Lab). (2014-2020).

Scientific Skills and Research Interest

- **Laboratory Experience:**

High Vacuum Technics, Anionic Polymerization, Control Radical Polymerization (ATRP,NMP), Organic Synthesis, Complex Macromolecular Architecture (block co-polymers, Stars, Rings, Combs, Single Chain Nanoparticles. Characterization technics: NMR, GPC, DLS, IR, Viscometry, TGA, DSC. Study of molecular dynamics in Bulk: Rheology, BDS. Scientific Glassblowing. Cooperative and friendly with my colleagues.

- **Research Interest:**

Synthesize and explore novel dynamic and self-healing polymeric materials (Vitrimers).

Synthesize Ring polymers, as well as their blends with linear, stars, single chain nanoparticles, and study their dynamics in bulk.

Synthesis and characterization of well-defined Single Chain Nanoparticles, as their blends with linear, star and brush polymers.

And above all, always eager and interested to explore and learn new areas of polymer chemistry.

Journal Publications

1. **Molecular Dynamics in Polystyrene Single-Chain Nanoparticles.** Klonos P. A., Patelis N., Glynos E., Sakellariou G., and Kyritsis A. *Macromolecules*, 2017, 50, 3719-3725.

Participation in Conferences

1. **12th Hellenic Polymer Society Meeting**
(Ioannina, October 2018, Greece)
 - I. “Synthesis and Characterization of Well-defined Single Chain Polystyrene Nanoparticles”
Patelis N., Parisi D., Vlassopoulos D., Sakellariou G.
 - II. “Synthesis and Characterization of Well-defined Ring Polystyrene”
Patelis N., Jeong Y., Chang T., Sakellariou G.
2. **Scientific Conference, “New Drug Delivery Systems in Nanomedicine ”**
(University of Athens, 13th July 2015, Drasi Aristeia 1-Pannanomed 70/3/11874)
3. **13th Hellenic Polymer Society International Conference**
(Athens, December 12-16, 2021, Greece)
“Synthesis and Study of Well-Defined Single Chain Polystyrene Nanoparticles in Solution and Bulk”
Patelis N., Klonos P., Glynos E., Kyritsis A., Sakellariou G.

Additional information

- **Languages:** Greek (native), English.
- **Hobbies:** Sports (1st Dan in Aikido), Music (Violin Diploma), Photography.