

Skills

Critical Thinking

Oral and written communication

Presentation competency

Research

Languages

Romanian ●●●●●

English ●●●●●

French ●○○○○

Vlad Marian Târpă

Profile

I am a driven radioprotection & process engineer in training at Cernavoda Tritium Removal Facility, first of its kind in Europe and 3rd in the world. As a Ph.D. student i have a passion for innovation. With a strong background in organic and polymer synthesis and expertise in designing and executing experiments, analyzing, and interpreting data and communication research finding effectively, I am well-suited for a wide range of roles that require problem-solving and critical thinking skills.

Education

Ph.D. co-tutelle Oct 2021 – Dec 2024
POLITEHNICA University of Bucharest & Aix-Marseille University
"Ground state zwitterions as molecular tools for science" – results soon to be published.

Smart Polymers and Biopolymers Master's Degree 2019 - 2021
Faculty of Applied Chemistry and Material Science
Based on the particularity of the carbazole sequence, the study "Compositionally Induced Versatile Behavior in Designing NLO Devices" refers to the synthesis and characterization of new carbazole structures.

Chemical Engineering Bachelor's Degree 2015 - 2019
Faculty of Applied Chemistry and Material Science

High School 2011 - 2015
Colegiul National Mihai Eminescu Constanta

Employment

Engineer in training Mar 2015 – Present
CNE Cernavoda, CTRF project

Quality control chemist Jun 2018 – Sep 2018
Nanochem SRL, Bucharest

Internships

ERASMUS+ Feb 2021 – Jun 2021
Centre Interdisciplinaire de Nanoscience de Marseille

Rompetrol, Constanta Jun 2017 – Sep 2017

Achievements

Academic Achievements

Scientific Workshops for Students:

University POLITEHNICA of Bucharest
Academic year: 2017-2018: Nanoparticles made out of natural silk charged with 5 fluorouracil for colo-rectal cancer, Second prize.

Academic year: 2019- 2020: Versatile conformation of carbazolic monomers destined for synthesis of polymeric assembly. Spectroscopic Investigations, First Mention "Mircea cel Bătrân" Naval Academy Constanța.
Academic year: 2019- 2020: Solvatochromic Study of Azo Carbazole Chromophores-Multifunctional Polymer Precursors, CADET-NAV 2020, XLII edition 30-31 October 2020, Constanta, Romania.

Scientific Conferences:

1. V.M. Tarpa, G. Perca Compositionally Induced Versatile Behavior in Designing NLO Devices: Solvatochromic Study 3rd Edition: "Emerging Technologies in Materials Engineering-EmergeMAT 29-30 October 2020, Bucharest, Romania, Poster presentation,
2. A.M. Albu, V. M. Tarpa, A. Aldea, C. M. Damian, F. Teodorescu, A. M. Onas, DNA or Chromophores – which the best partner for N-substituted Amide Copolymers, virtual Congress on Materials Science and Engineering, 09-10, November 2020, invited paper.
3. V.M. Tarpa, C. Ninciuleanu, Biopolymer Assemblies Synthesis and Characterization, 09-11 June 2nd Bucharest Polymer Conference
4. Vlad Tarpa, Jean-François Longevial, Michel Giorgi, Gabriel Canard, Simon Pascal, Denis Jacquemin, Olivier Siri, One pot synthesis of a bis-zwitterionic macrocycle via transamination reactions, 26-27 April, XTH EDITION OF THE FRANCO-ITALIAN CHEMISTRY DAYS 2022
5. Vlad Tarpa, Jean-François Longevial, Michel Giorgi, Gabriel Canard, Simon Pascal, Denis Jacquemin, Olivier Siri, One-pot Synthesis of a Bis-zwitterionic Macrocycle, 22ndRomanian International Conference on Chemistry and Chemical Engineering Sinaia, ROMANIA - September 7 – 9, 2022
6. Vlad Tarpa, Gabriel Canard, Olivier Siri, Ammonia sensors based on Ni(II) complexes in quinoid chemistry, N-Ligands, 8th EuChems Conference on Nitrogen Ligands, Cassis, France, June 3rd – 9th, 2024
7. Vlad Tarpa, Gabriel Canard, Olivier Siri, Ammonia sensors based on Ni(II) complexes in quinoid chemistry, RICCCE23 23nd Romanian International Conference on Chemistry and Chemical Engineering, Constanta, Romania, September 4-7th, 2024

Publications

- A.-M. Albu, V. M. Tarpa, Polymer Architectures for Optical and Photonic Applications, Chapter in Nonlinear Optics Intech open, 2021 DOI: 10.5772/intechopen.99695.
- Vlad Tarpa, Jean-François Longevial, Michel Giorgi, Gabriel Canard, Simon Pascal, Denis Jacquemin, Olivier Siri, Transamination of Zwitterionic Quinones with Polyamines: The Carbon Bridge Matters, The Journal of Organic Chemistry, 2025, 10.1021/acs.joc.4c02100147;147; 90, 2, 1001–1005, DOI:
- Vlad Marian Tarpa , Alecu Alin Ionut Alexandru Tompa, Olivier Siri, Ileana Rau, Zwitterionic Polymer Dispersed Liquid Crystals For Smart Windows Applications, U.P.B. Sci. Bull., Series B, 2025, 87, 4, 39-52.

Extracurricular activities

Leader of the interdisciplinary UPB team 2018-2019
University POLITEHNICA of Bucharest
Team P09 project: Demonstrator for oxygen production
ESA Lab Demonstrator Project - IGLUNA: A habitat on ice
https://space-innovation.ch/activities/igluna/previouseditions/

Core Competencies

Extensive experience in spectroscopy techniques: HNMR, CNMR, DEPT-135, COSY, FT-IR, MS, UV-VIS

Skilled in chromatography and purification methods: TLC, column chromatography

Proficient in data processing and software tools: MestReNova, ChemDraw, Origin, OPUS, OMNIC

References

Dr. Olivier Siri
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Centre Interdisciplinaire de Nanoscience de Marseille

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