PhD in Chemical Engineering - Researcher

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Professional Education

- **October 2021-present -PhD student in chemistry**, Department of Chemistry, Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University.
- **October 2014 – July 2019- PhD. Degree in Chemical Engineering,** Petroleum-Gas University of Ploiești.
- **October 2018 – 2020 – Master's degree in Computer Aided Chemical Engineering for Refineries and Petrochemistry,** Faculty of Petroleum Technology and Petrochemistry, Petroleum-Gas University of Ploiești.
- **October 2016 – September 2019 - Master's degree in Chemical Process Engineering,** Faculty of Applied Chemistry and Materials Science, Politehnica University of Bucharest .
- **October 2011 – February 2014 – Master degree in Chemistry of Medicines and Cosmetic Products,** Faculty of Chemistry, University of Bucharest.
- **October 2013 – February 2018 - Bachelor's Degree in Chemical Engineering (Engineering and Informatics of Chemical and Biochemical Processes),** Faculty of Petroleum Technology and Petrochemistry, Petroleum-Gas University of Ploiești.
- **October 2002 – June 2006 - Bachelor's Degre in Applied Chemistry,** Faculty of Science, University of Damascus, Syria.

Professional Experience

- ***Lecturer***, at Petroleum-Gas University of Ploiești- Ploiești-Romania. (March 2020 - Present).
- ***Research assistant***, at The National Institute of Development Research for Chemistry and Petrochemistry-ICECHIM- Bucharest-Romania (September 2018- June 2020).
- ***Research assistant, scientific researcher***, at The Research Institute Auxiliary Organic Products-Mediaș-Romania (July 2016 - September 2018).
  - ❖ **Research directions:**
  - ✓ Development and testing of heterogeneous catalysts
  - ✓ Hydrogenation of aromatic compounds and hydrodesulfurization of aromatic sulfur compounds
  - ✓ Catalysts for biomass transformation to produce biofuels and other valuable products
  - ✓ Glycerol conversion into additives for biodiesel

Experience gained as member in the national and international research projects

Title	Period	Function in project
Technology for obtaining glycerol formal, an eco polar solvent used in parenteral drug administration PN-III-P2-2.1-PTE-2016-0062. C 33PTE/2016	September 2016-September 2018	Member of the research team
Conversion of biomass waste into furanderivatives for use as biofuels PN-II-PT-PCCA-2013-4-0635. C.95 / 1.07.2014	July 2016- December 2016	Member of the research team
Energetic efficiency biogas plants improvement by integrated system:biogas-microalgae- biofuels in frame of biorefinery concept (AlgalBiogasConceptEnergy) PN-III-P1-1.2-PCCDI-2017-0541. C.95 / 1.07.2014	September 2018-June 2020	Member of the research team

Research Areas and Expertise

In the field of chemical engineering, catalysis and thermocatalytic processes. The research focuses on development and testing of heterogeneous catalysts, kinetic studies, process modelling and optimization for petrochemical processes, such as hydrodesulphurization and reactive desulphurization of aromatic sulfur compounds, hydrogenation of aromatic compounds and hydrocracking. Expertise also include catalysts for biomass transformation to produce biofuels and other valuable products or glycerol conversion into additives for biodiesel and bitumen. Plant simulation using PRO II, ASPEN, Matlab and kinetic studies are also among interests.