



Diana Anghel



EXPERIENȚĂ PROFESIONALĂ

01/08/2018 – 01.01.2025 Timisoara, Romania

● **ASISTENT DE CERCETARE** la **INSTITUTUL DE CHIMIE "Coriolan Drăgulescu"**

- **TRIBUȚII:** documentare, efectuare experimente laborator, sinteze, participare la redactarea articolelor științifice, participare la evenimente științifice (conferințe naționale și internaționale, simpozioane, workshop-uri, implicare în proiecte de cercetare;
- **APTITUDINI:** utilizarea aparaturii de laborator, cum ar fi: spectrofotometrul UV-Vis, fluorimetrul, spectroscopie IR, pH-metru.

● 08/2021 – 05/2023

CONCEDIU DE MATERNITATE

EDUCARE ȘI FORMARE

10/2024 – până în prezent

● Student doctorand în cadrul Școlii Doctorale a Facultății De Chimie, Biologie, Geografie a Universității de Vest, Timișoara

Website <https://www.uvt.ro/>

● 2018 – 2020

Master de **CHIMIE CLINICĂ ȘI DE LABORATOR SANITAR** din cadrul Facultății De Chimie, Biologie, Geografie a Universității de Vest, Timișoara

Website <https://www.uvt.ro/>

● 2015 – 2018

Licențiată în **Chimie** la Facultatea De Chimie, Biologie, Geografie al Universității de Vest, Timișoara

Website <https://www.uvt.ro/>

ABILITĂȚI LINGVISTICE

Limba maternă: Română

Alte Limbi:

Engleză

Ascultare: C1

Vorbit: B2

Citit: C1

Scris: B2

ABILITĂȚI DIGITALE:

Microsoft Word | Microsoft Excel | SpectraGryph | Adobe (Photoshop, InDesign, Dreamweaver) | ChemDraw, ISIS/Draw, ChemOffice, Adobe InDesign CS5, Ubuntu, Gauss View, Chimera

PUBLICĂRI:

● 1.

Anghel, D.; Epuran, C.; Frîngu, I.; Fratilescu, I.; Lascu, A.; Macsim, A.-M.; Chiriac, V.; Gherban, M.; Vlascici, D.; Fagadar-Cosma, E. Double Type Detection of Triiodide and Iodide Ions Using a Manganese(III) Porphyrin as a Sensitive Compound. *Sensors* **2024**, *24*(17), 5517. <https://doi.org/10.3390/s24175517>

2.

Frîngu, I.; Anghel, D.; Fratilescu, I.; Epuran, C.; Birdeanu, M.; Fagadar-Cosma, E. Nanomaterials Based on 2,7,12,17-Tetra-tert-butyl-5,10,15,20-tetraaza-21H,23H-porphine Exhibiting Bifunctional Sensitivity for Monitoring Chloramphenicol and Co^{2+} . *Biomedicines* 2024, 12(4), 770. <https://doi.org/10.3390/biomedicines12040770>

3.

Vlascici, D.; Lascu, A.; Fratilescu, I.; Anghel, D.; Epuran, C.; Birdeanu, M.; Chiriac, V.; Fagadar-Cosma, E. Asymmetric Pt(II)-Porphyrin Incorporated in a PVC Ion-Selective Membrane for the Potentiometric Detection of Citrate. *Chemosensors* 2023, 11(2), 108. <https://doi.org/10.3390/chemosensors11020108>

4.

Epuran, C.; Fratilescu, I.; Anghel, D.; Birdeanu, M.; Orha, C.; Fagadar-Cosma, E. A Comparison of Uric Acid Optical Detection Using as Sensitive Materials an Amino-Substituted Porphyrin and Its Nanomaterials with CuNPs, PtNPs and Pt@CuNPs. *Processes* 2021, 9(11), 2072. <https://doi.org/10.3390/pr9112072>

5.

Fratilescu, I.; Dudas, Z.; Birdeanu, M.; Epuran, C.; Anghel, D.; Frîngu, I.; Lascu, A.; Len, A.; Fagadar-Cosma, E. Hybrid Silica Materials Applied for Fuchsine B Color Removal from Wastewaters. *Nanomaterials* 2021, 11(4), 863. <https://doi.org/10.3390/nano11040863>

6.

Anghel, D.; Lascu, A.; Epuran, C.; Fratilescu, I.; Ianasi, C.; Birdeanu, M.; Fagadar-Cosma, E. Hybrid Materials Based on Silica Matrices Impregnated with Pt-Porphyrin or PtNPs Destined for CO_2 Gas Detection or for Wastewaters Color Removal. *Molecular Science* 2020, 21(12), 4262. <https://doi.org/10.3390/ijms21124262>

7.

Anghel, D.; Birdeanu, M.; Lascu, A.; Epuran, C.; Fagadar-Cosma, E. Amino-substituted porphyrins at the border of hybrid materials generation and platinum nanoparticles detection. *Studia UBB Chemia* 2020, 2, 107-120. [10.24193/subchem.2020.2.09](https://doi.org/10.24193/subchem.2020.2.09)

8.

Salageanu, L.; Muntean, D.; Licker, M.; Lascu, A.; Anghel, D.; Fagadar-Cosma, E. Symmetrical And Asymmetrical Meso-Substituted Porphyrins And Zn-Metalloporphyrins In Gold Colloid Environment. Optical Properties And Evaluation Of Antibacterial Activity. *Farmacia* 2020, 68(2). <https://doi.org/10.31925/farmacia.2020.2.14>

9.

Salageanu, L.; Muntean, D.; George, H.F.; Lascu, A.; Anghel, D.; Bagiu, I.C.; Fagadar-Cosma, E. Antimicrobial activity of different substituted meso-porphyrin derivatives. *Revista Romana de Medicina de Laborator* 2020, 28(2). <https://doi.org/10.2478/rlm-2020-0014>

10.

Fagadar-Cosma, E.; Plesu, N.; Lascu, A.; Anghel, D.; Cazacu, M.; Ianasi, C.; Fagadar-Cosma, G.; Fratilescu, I.; Epuran, C. Novel platinum-porphyrin as sensing compound with double fluorescent and amperometric efficiency for the detection of H_2O_2 . *Chemosensors* 2020, 8(2), 29. <https://doi.org/10.3390/chemosensors8020029>

11.

Anghel, D.; Lascu, A.; Fratilescu, I.; Epuran, C.; Plesu, N.; Fagadar-Cosma, E. Review about Main Requirements for Porphyrin Derivatives as Components of Dye Sensitized Solar Cells. *Journal of Solar Energy Research Updates. Journal of Solar Energy Research Updates* 2019, 6, 78-86. <https://doi.org/10.31875/2410-2199.2019.06.9>

12.

Fagadar-Cosma, E.; Lascu, A.; Shova, S.; Zaltariov, M.-F.; Birdeanu, M.; Croitor, L.; Balan, A.; Anghel, D.; Stamatin, S. X-ray Structure Elucidation of a Pt- Metalloporphyrin and Its Application for Obtaining Sensitive AuNPs-Plasmonic Hybrids Capable of Detecting Triiodide Anions. *International Journal of Molecular Science* 2019, 20(3), 710. <https://doi.org/10.3390/ijms20030710>

13.

Lascu, A.; Plesu, N.; Anghel, D.; Birdeanu, M.; Vlascici, D.; Fagadar-Cosma, E. Optical Detection of Bromide Ions Using Pt(II)-5,10,15,20-Tetra-(4-methoxy-phenyl)- porphyrin. *Chemosensors* 2019, 7(2), 21. <https://doi.org/10.3390/chemosensors7020021>

POSTERE:

1.

Anghel, D.; Lascu, A.; Fratilescu, I.; Epuran, C.; Fringu, I.; Fagadar-Cosma, E. Detection of lidocaine by optical methods using as sensitive compound a Co(II)-azaporphyrin. 16th Edition of the Conference "New Trends in Chemistry Research" 2024, Timisoara, Roomania.

2.

Anghel, D.; Lascu, A.; Fratilescu, I.; Epuran, C.; Plesu, N.; Fagadar-Cosma, E. NEW APPROACHES TO BIOLOGICAL IMAGING. COORDINATION OF BORON COMPOUNDS TO DIFFERENT PORPHYRINS FOR LASER DYES AND FLUORESCENT LABELING. 15th Edition of the Conference "New Trends in Chemistry Research" 2023, Timisoara, Roomania.

3.

Anghel, D.; Lascu, A. Tetra Amino-Substituted Porphyrins In Their Interaction With Hexachloroplatinic Acid For Platinum Recovery. 12th Edition of symposium with international participation - New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection 2019, Timisoara, Roomania.

4.

Anghel, D.; Lascu, A.; Fratilescu, I.; Epuran, C.; Fagadar-Cosma, E. Zn- Metalloporphyrins Containing Pyridyl Groups And Their Comparative Capacity To Coordinate Hexachloroplatinic Acid. 25th I.S.A.E.P. Conference 2019, Szeged, Hungary.

5.

Anghel, D.; Lascu, A.; Fratilescu, I.; Epuran, C.; Fagadar-Cosma, E. Mn-TETRATOLYLPORPHYRINNANO- Au COMPLEX SENSITIVE TO 4-AMINOSALICYLIC ACID. 24th I.S.A.E.P. Conference 2018, Szeged, Hungary.