



## Diana Anghel

Data nașterii: 27/04/1994

Naționalitate: Română

Gen: Feminin

### CONTACT

Timisoara, Romania (Work)

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[www.brainmap.ro](http://www.brainmap.ro)

[https://www.researchgate.net/profile/Diana\\_Anghel2](https://www.researchgate.net/profile/Diana_Anghel2) (researchgate)

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### EXPERIENȚĂ PROFESIONALĂ

01/08/2018 – 01.01.2025 Timisoara, Romania

#### ASISTENT DE CERCETARE la INSTITUTUL DE CHIMIE “Coriolan Drăgulescu”

- ATRIBUȚII: 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  $\text{Co}^{2+}$ . *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  $\text{CO}_2$  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/subbchem.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  $\text{H}_2\text{O}_2$ . *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.**; Stamatina, 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. 16<sup>th</sup> Edition of the Conference "New Trends in Chemistry Research" **2024**, Timisoara, Roamania.

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. 15<sup>th</sup> Edition of the Conference "New Trends in Chemistry Research" **2023**, Timisoara, Roamania.

3.

**Anghel, D.;** Lascu, A. Tetra Amino-Substituted Porphyrins In Their Interaction With Hexachloroplatinic Acid For Platinum Recovery. 12<sup>th</sup> 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, Roamania.

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. 25<sup>th</sup> 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. 24<sup>th</sup> I.S.A.E.P. Conference **2018**, Szeged, Hungary.