

**LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII ȘTIINȚIFICE DIN
PROGRAMUL DE STUDII DOCTORALE**

Nume: EPURAN
Prenume: Camelia-Maria



1. Lucrări publicate:

1. Dana Vlascici, Anca Lascu, Ion Fratilescu, Diana Anghel, **Camelia Epuran**, Mihaela Birdeanu, Vlad Chiriac, Eugenia Fagadar-Cosma. Asymmetric Pt(II)-Porphyrin Incorporated in a PVC Ion-Selective Membrane for the Potentiometric Detection of Citrate. *Chemosensors* **2023**, *11*, 108. <https://doi.org/10.3390/chemosensors11020108>. FI= 4.229.
2. Anca Lascu, **Camelia Epuran**, Ion Fratilescu, Mihaela Birdeanu, Liliana Halip, Eugenia Fagadar-Cosma. Porphyrin hetero-trimer involving a hydrophilic and a hydrophobic structure with application in the fluorescent detection of toluidine blue. *Chemosensors* **2022**, *10*, 48. <https://doi.org/10.3390/chemosensors10110481>. FI= 4.229.
3. Mihaela Birdeanu, **Camelia Epuran**, Ion Fratilescu, Eugenia Fagadar-Cosma. Structured composites between MnTa₂O₆ and porphyrins: Influence of the number of carboxylic groups grafted on porphyrins on the capacity to inhibit corrosion of steel. *Indian J. Chem. Technol.* **2022**, *29*, 354–366. <https://doi.org/10.56042/ijct.v29i4.59344>. FI= 0.56.
4. **Epuran Camelia**, Fratilescu Ion, Măcsim Ana Maria, Lascu Anca, Ianasi Catalin, Birdeanu Mihaela, Fagadar-Cosma Eugenia. Excellent Cooperation between Carboxyl-Substituted Porphyrins, k-Carrageenan and AuNPs for Extended Application in CO₂ Capture and Manganese Ion Detection. *Chemosensors* **2022**, *10*, 133. <https://doi.org/10.3390/chemosensors10040133>. Premiat ca și **Cover Article**. FI= 4.229.
5. Birdeanu Mihaela, Fratilescu Ion, **Epuran Camelia**, Murariu Alin Constantin, Socol Gabriel, Fagadar-Cosma Eugenia. Efficient Decrease in Corrosion of Steel in 0.1 M HCl Medium Realized by a Coating with Thin Layers of MnTa₂O₆ and Porphyrins Using Suitable Laser-Type Approaches. *Nanomaterials* **2022**, *12*, 1118. <https://doi.org/10.3390/nano12071118> FI= 5.3.
6. **Camelia Epuran**, Ion Fratilescu, Diana Anghel, Mihaela Birdeanu, Corina Orha, Eugenia Fagadar-Cosma. 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*, 2072. <https://doi.org/10.3390/pr9112072>. Selectat ca **Feature Paper**. FI= 3.352.
7. Mihaela Birdeanu, **Camelia Epuran**, Ion Fratilescu, Eugenia Fagadar-Cosma. Structured Thin Films Based on Synergistic Effects of MnTa₂O₆ Oxide and bis-Carboxy-phenyl-substituted Porphyrins, Capable to Inhibit Steel Corrosion. *Processes* **2021**, *9*, 1890. <https://doi.org/10.3390/pr9111890>. FI= 3.352.

2. Lucrări publicate în reviste CNCSIS (cu specificarea categoriei CNCSIS): -

3. Lucrări publicate în reviste indexate BDI: -

4. Capitole de carte: -

5. Brevete:

1. RO Patent–a202200130, Birdeanu, M.; **Epuran, C.**; Frățilescu, I.; Fagadar-Cosma, E. Titlu: „Procedeu de obținere de inhibitori de coroziune organizați în straturi subțiri alternative de porfirine substituie cu grupări carboxil și oxid pseudo-binar de tip $MnTa_2O_6$, realizate prin tehnica PLD”, publicat în **RO-BOPI 9/2023, din 29.09.2023**.

6. Comunicări la conferințe naționale sau internaționale:

1. Camelia Epuran. Improved domain and selectivity for uric acid detection using assensitive materials complexes between an amino functionalized porphyrin and CuNPs, PtNPs or Pt@CuNPs. **ICMPP – OPEN DOOR TO THE FUTURE SCIENTIFIC COMMUNICATIONS OF YOUNG RESEARCHERS MacroYouth'2021** 2nd Edition, Iasi, Noiembrie, 19, **2021**, pp 11.

2. Camelia Epuran, Ion Fratilesco, Diana Anghel, Mihaela Birdeanu, Eugenia Fagadar-Cosma. Selection of the best sensitive material for uric acid detection from complexes of afunctionalized porphyrin and CuNPs, PtNPs or Pt@CuNPs. **New trends and strategies in the chemistry of advanced materials with relevance in biological systems, technique and environmental protection** 13th Edition, online, Octombrie, 07-08, **2021**, pp 23.

3. Mihaela Birdeanu, Camelia Epuran, Ion Fratilesco, Eugenia Fagadar-Cosma. Thin film layers based on porphyrins and pseudo-binary-oxides with synergistic effects in corrosion inhibition of steel, **International Conference on THIN-FILM Processing and Application (ICTFPA-2022)**, Martie, 04-05, **2022**, MATS University, Arang, India.

4. Mihaela Birdeanu, Aurel-Valentin Birdeanu, Camelia Epuran, Eugenia Fagadar-Cosma. New sandwich type materials based on $MnTa_2O_6$ and carboxyl-substituted A_4 and A_3B porphyrins. The effect of the carboxyl groups on corrosion inhibition properties. **EmergeMAT 4th International Conference on Emerging Technologies in Materials Engineering**, November, 4-5, **2021**, București, România.

Comunicări spre publicul larg

1. Expunerea și explicațiile oferite la posterul cu titlul Proiectul PN-III-P2-2.1-PED-2019-0487, 528 PED/2020 CERAPOR-CORR, „Materiale hibride de tip ceramic/porfirine depuse ca straturi unice sau de tip sandwich prin tehnica PLD pentru inhibarea coroziunii oțelurilor în mediu acid” și abstractul grafic de la lucrarea publicată în Nanomaterials cu titlul “One A3B Porphyrin Structure-Three Successful Applications” (<https://doi.org/10.3390/nano12111930>). Eveniment: *A XVIII-a ediție a evenimentului Noaptea Cercetătorilor Europeni*, finanțat de către Comisia Europeană prin acțiunile Marie Skłodowska-Curie, **30 Septembrie 2022**.

7. Alte mențiuni:

Lista lucrărilor cu tematica complementară publicate în calitate de prim-autor/coautor în perioada studiilor de doctorat:

7.1 Lucrări ISI

1. Anca Lascu, Dana Vlascici, Mihaela Birdeanu, **Camelia Epuran**, Ion Fratilescu, Eugenia Fagadar-Cosma. The Influence of the Nature of the Polymer Incorporating the Same A₃B Multifunctional Porphyrin on the Optical or Electrical Capacity to Recognize Procaine. *Int. J. Mol. Sci.* **2023**, *24*, 17265. <https://doi.org/10.3390/ijms242417265>.
- FI= 5.6.
2. Mihaela Birdeanu, Ion Fratilescu, **Camelia Epuran**, Liviu Mocanu, Catalin Ianasi, Anca Lascu, Eugenia Fagadar-Cosma. Nanomaterials Based on Collaboration with Multiple Partners: Zn₃Nb₂O₈ Doped with Eu³⁺ and/or Amino Substituted Porphyrin Incorporated in Silica Matrices for the Discoloration of Methyl Red. *Int. J. Mol. Sci.* **2023**, *24*, 8920. <https://doi.org/10.3390/ijms24108920>. FI= 5.6.
3. Ion Fratilescu, Anca Lascu, Bogdan Ovidiu Taranu, **Camelia Epuran**, Mihaela Birdeanu, Ana-Maria Macsim, Eugenia Tanasa, Eugeniu Vasile, Eugenia Fagadar-Cosma. One A₃B Porphyrin Structure—Three Successful Applications. *Nanomaterials* **2022**, *12*, 1930. <https://doi.org/10.3390/nano12111930>. Premiat ca *Editors' choice-cover article*. FI= 5.3.
4. Ionela Fringu, Anca Lascu, Ana-Maria Macsim, Ion Fratilescu, **Camelia Epuran**, Mihaela Birdeanu, Eugenia Fagadar-Cosma. Pt (II)-A₂B₂ metalloporphyrin-AuNPS hybrid material suitable for optical detection of 1-anthraquinonsulfonic acid. *Chemical Papers* **2022**, *76*, 2513–2527. <https://doi.org/10.1007/s11696-021-02047-2>. FI= 2.41.
5. Ion Fratilescu, Zoltán Dudás, Mihaela Birdeanu, **Camelia Epuran**, Diana Anghel, Ionela Fringu, Anca Lascu, Adél Len, Eugenia Fagadar-Cosma. Hybrid Silica Materials Applied for Fuchsine B Color Removal from Wastewaters. *Nanomaterials* **2021**, *11*, 863. <https://doi.org/10.3390/nano1104086>. FI= 5.719.
6. Diana Anghel, Anca Lascu, **Camelia Epuran**, Ion Fratilescu, Catalin Ianasi, Mihaela Birdeanu, Eugenia Fagadar-Cosma, Hybrid Materials Based on Silica Matrices Impregnated with Pt-Porphyrin or PtNPs Destined for CO₂ Gas Detection or for Wastewaters Color Removal. *Int. J. Mol. Sci.* **2020**, *21*, 4262. <https://doi.org/10.3390/ijms21124262>. FI= 5.62.
7. Eugenia Fagadar-Cosma, Nicoleta Plesu, Anca Lascu, Diana Anghel, Maria Cazacu, Catalin Ianasi, Gheorghe Fagadar-Cosma, Ion Fratilescu, **Camelia Epuran**. Novel Platinum-Porphyrin as Sensing Compound for Efficient Fluorescent and Electrochemical Detection of H₂O₂. *Chemosensors* **2020**, *8*, 29. <https://doi.org/10.3390/chemosensors8020029>. FI= 5.02.
8. Diana Anghel, Mihaela Birdeanu, Anca Lascu, **Camelia Epuran**, Eugenia Fagadar-Cosma. Amino-substituted porphyrins at the border of hybrid materials generation and platinum nanoparticles detection. *Studia Universitatis Babeş-Bolyai, Chemia* **2020**, *65*, 107–120. <https://doi.org/10.24193/subbchem.2020.2.09>. FI= 0.447.

7.2. Lucrări BDI

1. Diana Anghel, Anca Lascu, Ion Fratilescu, Camelia Epuran, Nicoleta Plesu, Eugenia Făgădar-Cosma. Review about Main Requirements for Porphyrin Derivatives as Components of Dye Sensitized Solar Cells. *J. Sol. Energy* **2019**, *6*, 78–86. <https://doi.org/10.31875/2410-2199.2019.06.9>.

7.3. Brevete

1. **RO Patent–a202000533**, Fratilescu, I.; Anghel, D.; **Epuran, C.**; Ianasi, C.; Fagadar-Cosma E. Titlu: „Metoda de Adsorbție a Coloranților din Ape Contaminate Utilizând Materiale Hibride pe Bază de Silice Mezoporoasă care Încorporează Nanoparticule de Platină sau Pt(II)-tetra-(aliloxi-fenil)-porfirina”, **publicat în RO-BOPI 2/2022, din 28.02.2022.**

7.4. Comunicări la conferințe naționale sau internaționale

1. **Camelia Epuran**, Ion Fratilescu, Diana Anghel, Anca Lascu, Eugenia Fagadar-Cosma. Complex between an A₃B porphyrin, AuNPs and k-carrageenan used for detection of 1-methylimidazole. *The 15th Edition of the Conference” New Trends in Chemistry Research*”, Septembrie, 21-22, **2023**, Timișoara, România pp 68.

2. Ion Fratilescu, **Camelia Epuran**, Diana Anghel, Anca Lascu, Eugenia Fagadar- Cosma. Advanced antibacterial compounds complexes between 1-methylimidazole and a carboxy–A₃B porphyrin. *The 15th Edition of the Conference” New Trends in Chemistry Research*”, Septembrie, 21-22, **2023**, Timișoara, România, pp 69.

3. Diana Anghel, Anca Lascu, Ion Fratilescu, **Camelia Epuran**, Eugenia Fagadar-Cosma. New approaches to biological imaging coordination of boron compounds to different porphyrins for laser dyes and fluorescent labeling. *The 15th Edition of the Conference” New Trends in Chemistry Research*”, Septembrie, 21-22, **2023**, Timișoara, România, pp 65.

4. Anca Lascu, **Camelia Epuran**, Ion Fratilescu, Diana Anghel, Eugenia Fagadar-Cosma. Porphyrin-based nanomaterials able to quantify water in food packaging. *The 15th Edition of the Conference. ” New Trends in Chemistry Research*”, Septembrie, 21-22, **2023**, Timișoara, Romania, pp 67.

5. **Epuran Camelia**, Lascu Anca. Acetamide detection with relevance in liver fibrosis control using a dimer compound based on porphyrins. *The 14th 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*”, Octombrie, 20-21, **2022**, Timișoara, România, pp 52.

6. Ion Fratilescu, **Camelia Epuran**, Anca Lascu, Mihaela Birdeanu, Eugenia Fagadar-Cosma, Detection of different quinone derivatives using Pt(II)-metalloporphyrin-AuNPs hybrid nanomaterials. *New Trends and Strategies in the Chemistry of Advanced Materials with Relevance in Biological Systems, Technique and Environmental Protection*, “Coriolan Drăgulescu” Institute of Chemistry, Octombrie, 20-21, **2022** at Timișoara (România).

7. **Camelia Epuran**, Diana Anghel, Anca Lascu, Ion Fratilescu, Eugenia Fagadar-Cosma. Optical Detection of Rhodamine B by Pt(II) Tetra-(4-Allyloxy-Phenyl)-Porphyrin. *Proceedings of the 25th International Symposium on Analytical and Environmental Problems*, Seghedin, Ungaria, 2019, pp 129-132, ISBN 978-963-306-702-4.

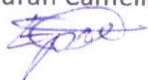
8. Ion Fratilescu, Diana Anghel, Anca Lascu, **Camelia Epuran**, Eugenia Fagadar-Cosma. Platinum-Porphyrin Involved in the UV-Vis Spectrophotometric detection of Rhodamine B

and Oxygen Peroxide. *Proceedings of the 25th International Symposium on Analytical and Environmental Problems*, Seghedin, Ungaria, 2019, pp 133-136, ISBN 978-963-306-702-4.

9. Diana Anghel, Anca Lascu, Ion Fratilesco, **Camelia Epuran**, Eugenia Fagadar-Cosma. Zn-Metalloporphyrins Containing Pyridyl Groups and Their Comparative Capacity to Coordinate Hexachloroplatinic Acid. *Proceedings of the 25th International Symposium on Analytical and Environmental Problems*, Seghedin, Ungaria, 2019, pp 100-103, ISBN 978-963-306-702-4.

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