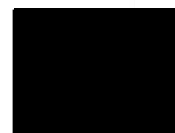


Listă lucrări publicate (Epuran Camelia-Maria)

(i) Lista celor maxim 10 lucrări considerate a fi cele mai relevante pentru realizările profesionale proprii:

1. **Camelia Epuran**, Ion Frățilescu, Ionela Fringu, Anca Lascu, Liliana Halip, Mihaela Gherban, Eugenia Făgădar-Cosma.
UV-Vis Detection of Thioacetamide: Balancing the Performances of a Mn(III)-Porphyrin, Gold Colloid, and Their Complex for Selecting the Most Sensitive Material. *Micromachines*, 2025, 16(5), 574. <https://doi.org/10.3390/mi16050574>. FI = 3.0.
2. Ionela Fringu, Diana Anghel, Ion Fratilesco, **Camelia Epuran**, Mihaela Birdeanu, and Eugenia Fagadar-Cosma. 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, 770.
<https://doi.org/10.3390/biomedicines12040770>. FI= 3.9
3. Anca Lascu, Dana Vlascici, Mihaela Birdeanu, **Camelia Epuran**, Ion Fratilesco, 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
4. Dana Vlascici, Anca Lascu, Ion Fratilesco, 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>. F.I. = 4.2
5. Anca Lascu, **Camelia Epuran**, Ion Fratilesco, 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>. F.I. = 4.2



6. **Camelia Epuran**, Ion Fratilescu, Ana Maria Macsim, Anca Lascu, Catalin Ianasi, Mihaela Birdeanu, Eugenia Fagadar-Cosma. 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>. [Cover Issue]; F.I. = 4.2.

7. 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>. [Editor's Choice] [Cover Issue]; F.I. = 5.3.

8. **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]* F.I. = 3.352

9. Mihaela Birdeanu, Ion Fratilescu, **Camelia Epuran**, Alin Constantin Murariu, Gabriel Socol, Eugenia Fagadar-Cosma. 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>. F.I. = 5.3

10. Ion Fratilescu, Zoltán Dudás, Mihaela Birdeanu, **Camelia Epuran**, Diana Anghel, Ionela Fringu, Anca Lascu, Adél Len, Eugenia Fagadar-Cosma. Hybrid Silica Materials Applied for Fuchsin B Color Removal from Wastewaters. *Nanomaterials* **2021**, *11*, 863. <https://doi.org/10.3390/nano1104086>. F.I. = 5.719

(ii) **Teza de doctorat** cu Titlul “Nanomateriale hibride și compozite pe bază de derivați porfinici cu aplicații în inhibarea coroziunii și detecția de analiți cu relevanță medicală și tehnică”, susținută public în iunie 2024.

(iii) **Publicații în reviste internaționale cotate ISI și indexate în baza de date a Web of Science:**

1. **Camelia Epuran**, Ion Frățilescu, Ionela Fringu, Anca Lascu, Liliana Halip, Mihaela Gherban, Eugenia Făgădar-Cosma.



UV-Vis Detection of Thioacetamide: Balancing the Performances of a Mn(III)-Porphyrin, Gold Colloid, and Their Complex for Selecting the Most Sensitive Material. *Micromachines*, **2025**, 16(5), 574. <https://doi.org/10.3390/mi16050574>. FI = 3.0.

2. Diana Anghel, **Camelia Epuran**, Ionela Fringu, Ion Fratilescu, Anca Lascu, Ana-Maria Macsim, Vlad Chiriac, Mihaela Gherban, Dana Vlascici, and Eugenia Fagadar-Cosma. Double Type Detection of Triiodide and Iodide Ions Using a Manganese(III) Porphyrin as Sensitive Compound. *Sensors*, **2024**, 24, 5517. <https://doi.org/10.3390/s24175517>. FI= 3.9
3. Ionela Fringu, Diana Anghel, Ion Fratilescu, **Camelia Epuran**, Mihaela Birdeanu, and Eugenia Fagadar-Cosma. 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, 770. <https://doi.org/10.3390/biomedicines12040770>. FI= 3.9
4. 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
5. 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
6. 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>. F.I. = 4.2
7. 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>. F.I. = 4.2
8. 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>. F.I. = 0.56

9. **Camelia Epuran**, Ion Fratilescu, Ana Maria Macsim, Anca Lascu, Catalin Ianasi, Mihaela Birdeanu, Eugenia Fagadar-Cosma. 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>. [Cover Issue]; F.I. = 4.2.

10. Mihaela Birdeanu, Ion Fratilescu, **Camelia Epuran**, Alin Constantin Murariu, Gabriel Socol, Eugenia Fagadar-Cosma. 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>. F.I. = 5.3

11. 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>. [Editor's Choice] [Cover Issue]; F.I. = 5.3.

12. 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>. F.I. = 2.41

13. **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]* F.I. = 3.352

14. 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>. F.I. = 3.352

15. Ion Fratilescu, Zoltán Dudás, Mihaela Birdeanu, **Camelia Epuran**, Diana Anghel, Ionela Fringu, Anca Lascu, Adél Len, Eugenia Fagadar-Cosma. Hybrid Silica Materials



Applied for Fuchsin B Color Removal from Wastewaters. *Nanomaterials* **2021**, *11*, 863.
<https://doi.org/10.3390/nano1104086>. F.I. = 5.719

16. 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>. F.I. = 5.62

17. 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>. F.I. = 5.02

18. 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 Babes-Bolyai, Chemia* **2020**, *65*, 107–120. <https://doi.org/10.24193/subbchem.2020.2.09>. F.I. = 0.447.

Publicații în reviste open acces internaționale

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>.

(iv) Lucrări științifice apărute în rezumat în volumele unor manifestări științifice internaționale

1. **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.
2. 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.
3. Diana Anghel, Anca Lascu, Ion Fratilescu, **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.

(v) **Brevete naționale aprobate și publicate**

1. RO Patent–a202200130, Mihaela Birdeanu, **Camelia Epuran**, Ion Frățilescu, Eugenia Fagadar-Cosma. Titlu: „Procedeu de obținere de inhibitori de coroziune organizați în straturi subțiri alternative de porfirine substituite 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**.

2. RO Patent–a202000533, Ion Fratilesco, Diana Anghel, **Camelia Epuran**, Catalin Ianasi, Eugenia Fagadar-Cosma. 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**.

(vii) **Participări și acțiuni de diseminare spre publicul larg (elevi, studenți, persoane interesate)**

1. Expunerea posterului cu titlul: Complex between an A₃B porphyrin, AuNPs and k-carrageenan used for detection of 1- methylimidazole. **Camelia Epuran**, Ion Fratilesco, Diana Anghel, Anca Lascu, Eugenia Fagadar-Cosma. Eveniment: *Noaptea Cercetătorilor Europeni 2023*, finanțat de către Comisia Europeană prin acțiunile Marie Skłodowska-Curie, **29 Septembrie 2023**.

2. 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**.

Data,
22.05.2025

Candidat,
Epuran Camelia-Maria

