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Gradul didactic: **Asist. univ. dr.**

Instituția unde este titular: **Universitatea „Alexandru Ioan Cuza” din Iași**

Facultatea: **Chimie**

Departamentul: **Chimie**

L I S T A LUCRĂRILOR ȘTIINȚIFICE

A. Teza de doctorat

Titlul tezei: „*Compuși cu legături peptidice și aplicațiile lor biomedicale*”

Școala Doctorală de Chimie, Universitatea ”Alexandru Ioan Cuza” din Iași ([Link teză](#))

Diploma de Doctor Seria J Nr. 0014548 (Nr. 3209 / 23.02.2016)

B. Cărți si capitole în cărți publicate în ultimii 5 ani (2021-2025)

Nu este cazul

C. Lucrări indexate ISI/BDI publicate în ultimii 5 ani (2021-2025)

1. Lupu, A., Gradinaru, LM., Balan-Porcarasu, M., **Darie-Ion, L.**, Petre, BA., Gradinaru, VR., The hidden power of a novel collagen octapeptide: Unveiling its antioxidant and cofactors releasing capacity from polyurethane based systems. *Reactive and Functional Polymers*, **2025**, 207, 106131, <https://doi.org/10.1016/j.reactfunctpolym.2024.106131>
2. **Darie-Ion, L.**, Petre, BA., “An update on multiplexed mass spectrometry- based lysosomal storage disease diagnosis.” *Mass Spectrometry Reviews*, **2023**, 1-15, <https://doi.org/10.1002/mas.21864>
3. Jitaru, SC., Neamtu, A., Drochioiu, G., **Darie-Ion, L.**, Stoica, I., Petre, BA., Gradinaru, VR. A Diphenylalanine Based Pentapeptide with Fibrillating Self-Assembling Properties. *Pharmaceutics* **2023**, 15, 371. <https://doi.org/10.3390/pharmaceutics15020371>
4. Iavorschi, M., Lupaescu, AV., **Darie-Ion, L.**, Indeykina, M., Hitruc, EG., Petre, BA., Cu and Zn Interactions with Peptides Revealed by High Resolution Mass Spectrometry, *Pharmaceutics*, **2022**, 15(9), 1096; <https://doi.org/10.3390/ph15091096>

5. **Darie-Ion, L.**, Whitham, D., Jayathirtha, M., Rai, Y., Neagu, A.N., Darie, C.C., Petre, BA. Applications of MALDI-MS/MS-Based Proteomics in Biomedical Research. *Molecules* **2022**, 27, 6196. <https://doi.org/10.3390/molecules27196196>
6. Mocanu, CS., **Darie-Ion, L.**, Petre, BA., Gradinaru, VR., Drochioiu, G. A computational study of metal ions interaction with amyloid- β 1–42 peptide structure in hyperpyrexia: Implications for Alzheimer disease. *Journal of King Saud University-Science*, **2022**, 34(6), 102184. <https://doi.org/10.1016/j.jksus.2022.102184>
7. **Darie-Ion, L.**, Neamtu, A., Iliescu, R., Petre, BA., Immuno-affinity study of oxidative tyrosine containing peptides, *Int J Pept Res Ther*, **2022**, 28, 41. <https://doi.org/10.1007/s10989-021-10329-2>
8. **Darie-Ion, L.**, Jayathirtha, M., Hitruc, EG., Zaharia, MM., Gradinaru, VR., Darie, CC., Pui, A., Petre, BA., A proteomic approach to identify zein proteins upon eco-friendly ultrasound-based extraction, *Biomolecules* **2021**, 11(12), 1838; <https://doi.org/10.3390/biom11121838>
9. Mocanu, CS., Petre, BA., **Darie-Ion, L.**, Drochioiu, G., Niculaua, M., Stoica, I., Homociana M., Nita, LE., Gradinaru, VR. Structural Characterization of a New Collagen Biomimetic Octapeptide with Nanoscale Self-assembly Potential: Experimental and Theoretical Approaches. *ChemPlusChem*, 87(2): e202100462, **2021**. <https://doi.org/10.1002/cplu.202100462>
10. Maeser, S., Petre, BA., **Ion, L.**, Rawer, S., Kohlschütter, A., Santorelli, FM., Simonati, A., Schulz, A., Przybylski, M., Enzymatic diagnosis of neuronal lipofuscinoses in dried blood spots using substrates for concomitant tandem mass spectrometry and fluorimetry. *J. Mass Spectrom.*, **2021** 29:e4675. <https://doi.org/10.1002/jms.4675>

D. Lucrări publicate în ultimii 5 ani (2021-2025) în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

Nu este cazul

- Selecție cu maximum 20 lucrări în volume de conferințe

1. **Darie-Ion, L.**, Drochioiu, G., Jitaru, S.C., Mocanu, C.S., Petre, B.A. “Drug-Peptide Conjugates: Solid Phase Synthesis and Mass Spectrometric Characterization”. vol 21:59-66, **2021**, ISBN:978-619-7603-30-9, ISSN:1314-2704, DOI: 10.5593/sgem2021/6.1/s25.14
2. **Darie-Ion, L.**, Drochioiu, G., Pui, A., Mihalcea, E., Gradinaru, V.R. “Zein Conjugates of Biomedical Interest: Synthesis and Characterization by MALDI-ToF Mass Spectrometry and

Fourier Transform Infrared Spectroscopy”. vol 21:155-162, **2021**, ISBN:978-619-7603-30-9, ISSN:1314-2704, DOI: 10.5593/sgem2021/6.1/s25.38

E. Brevete obținute în întreaga activitate

Nu este cazul

Data:

26.02.2026