ANEXA 6

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

Nume: Blaj
Prenume: Diana-Andreea

1. ***Lucrări publicate*** :

   - în reviste cotate ISI (Web of Science cu factor de impact);

Lucrări publicate în reviste științifice cotate ISI (rezultate incluse în teză)

- **Blaj D.-A.**, Peptu C.A., Danu M., Harabagiu V., Peptu C., Bujor A., Ochiuz L., Tuchiluș C.G. Enrofloxacin Pharmaceutical Formulations through the Polymer-Free Electrospinning of β-Cyclodextrin–oligolactide Derivatives. Pharmaceutics, 16, 903, 2024. (FI ISI: 4,9)
- **Blaj D.-A.**, Balan-Porcarasu M., Harabagiu V., Peptu C. Synthesis of β-cyclodextrin derivatives substituted at larger or smaller rims via amine-catalyzed ring-opening oligomerization of ε-caprolactone. Carbohydrate Polymers, 334, 122032, 2024. (FI ISI: 10,7)
- Peptu C., **Blaj, D.-A.**, Balan-Porcarasu M., Peptu C.A., Harabagiu V. Custom-modified oligolactide-cyclodextrin derivatives for electrospun drug formulations. European Polymer Journal, 196, 112234, 2023. (FI ISI: 5,8)
- **Blaj D.-A.**, Kowalczuk M., Peptu C. Mass Spectrometry of Esterified Cyclodextrins. Molecules, 28, 2001, 2023. (FI ISI: 4,2)
- Peptu C., **Blaj D.-A.**, Balan-Porcarasu M., Rydz J. Cyclodextrin-Oligocaprolactone Derivatives—Synthesis and Advanced Structural Characterization by MALDI Mass Spectrometry. Polymers, 14, 1436, 2022. (FI ISI: 4,7)
- **Blaj D.A.**, Balan-Porcarasu M., Petre B.A., Harabagiu V., Peptu C. MALDI mass spectrometry monitoring of cyclodextrin-oligolactide derivatives synthesis. Polymer, 233, 124186, 2021. (FI ISI: 4,1)

Lucrări publicate în reviste științifice cotate ISI (rezultate care nu sunt incluse în teză)

- **Blaj D.-A.**, Diaconu A.-D., Harabagiu V., Peptu C. Polyethylene Glycol-Isophorone Diisocyanate Polyurethane Prepolymers Tailored Using MALDI MS. Materials, 16, 821, 2023. (FI ISI: 3,1)
- Damoc M., Stoica A.-C., **Blaj D.-A.**, Macsim A.-M., Dascalu M., Cojocaru C., Shova S., Cazacu M. Fourteen-member silacycle built by cascade reactions induced by a platinum catalyst, Journal of Molecular Structure, 1269, 133760, 2022. (FI ISI: 4)

2. Capitole de carte

- **Blaj D.-A.**, Rotaru R., Peptu C. 16 - Protective textiles from natural resources for electromagnetic shielding, Editor(s): Md. Ibrahim H. Mondal, In The Textile Institute Book Series, Protective Textiles from Natural Resources, Woodhead Publishing, 2022, Pages 469-510, ISBN 9780323904773.

3. Comunicări la conferinţe naţionale sau internaţionale

a. Comunicări orale

- MALDI MS Kinetics for Ring-Opening Oligomerization of Cyclic Esters in the Presence of Cyclodextrin, Cristian Peptu, **Diana-Andreea Blaj**, Mihaela Balan-Porcarasu, 40th Informal Meeting on Mass Spectrometry, 12-15 mai 2024, Budapesta, Ungaria.
- MALDI mass spectrometry-based analytical approach for the analysis of ring-opening oligomerization of cyclic esters in the presence of cyclodextrin, Cristian Peptu, **Diana-Andreea Blaj**, Mihaela Balan-Porcarasu, Valeria Harabagiu, 29th edition of Progress in the Science of Organic and Macromolecular Compounds, 4-6 Octombrie 2023, Iași, România.
- The influence of cyclodextrin's cavity size on the ring-opening oligomerization of cyclic esters, **Diana-Andreea Blaj**, Valeria Harabagiu, Cristian Peptu, 33rd edition of the International Conference of "Apollonia" University, 2-5 Martie 2023, Iași, România.
- Reactivity insights in β-cyclodextrin-ε-caprolactone oligomerization reactions by MALDI mass spectrometry, **D. A. Blaj**, M. Balan-Porcarasu, V. Harabagiu, C. Peptu, 3rd edition of Scientific communications session of young researchers (MacroYouth 2022), 18 Noiembrie 2022, Iași, România.
- NMR study of some β-cyclodextrin-oligocaprolactone derivatives, M. Balan-Porcarasu, **D. A. Blaj**, C. Peptu, V. Harabagiu, 3rd edition of Scientific communications session of young researchers (MacroYouth 2022), 18 Noiembrie 2022, Iași, România.

- Cyclodextrin initiated ring opening oligomerization of ε-caprolactone – structural insights via MALDI mass spectrometry and NMR spectroscopy, **D. A. Blaj**, M. Balan-Porcarasu, V. Harabagiu, C. Peptu, 32nd edition of the International Conference of "Apollonia" University, 1-2 Martie 2022, Iași, România.
- Elucidation of Complex Structures through Mass Spectrometry Fragmentation Studies, **D. A. Blaj**, M. Balan-Porcarasu, V. Harabagiu, C. Peptu, 2nd edition of Scientific communications session of young researchers (MacroYouth 2021), 19 Noiembrie 2021, Iași, România.
- Mass Spectrometry Monitoring of Polymerization Reactions in the Presence of Cyclodextrins, **D. Blaj**, V. Harabagiu, C. Peptu, 1st edition of Scientific communications session of young researchers (MacroYouth 2020), 19 Noiembrie 2020, Iași, România.
- MALDI mass spectrometry as a tool for the structural characterization of the complex chemical structures, **D. Blaj**, C. Peptu, 30th edition of the International Conference of "Apollonia" University, 28 Februarie - 3 Martie 2020, Iași, România.

b. Postere

- MALDI MS Quantification of Transesterification Reactions in the Ring-Opening Polymerization of Lactides, **Diana-Andreea Blaj**, Cristian Peptu, 40th Informal Meeting on Mass Spectrometry, 12-15 mai 2024, Budapesta, Ungaria.
- MALDI mass spectrometry monitoring of cyclodextrin-oligolactide synthesis, **D.-A. Blaj**, C. Peptu, V. Harabagiu, The Silesian Meetings on Polymer Materials POLYMAT 2022 - 17 Martie 2022, Zabrze, Polonia.
- Cyclodextrin-oligocaprolactone synthesis – advanced structural studies by MALDI mass spectrometry and NMR spectroscopy, C. Peptu, **D.-A. Blaj**, M. Balan-Porcarasu, J. Rydz, The Silesian Meetings on Polymer Materials POLYMAT 2022, 17 Martie 2022, Zabrze, Polonia.
- Cyclodextrin involvement in the ring opening polymerization of D,L-lactide monitored by MALDI mass spectrometry, **D. Blaj**, C. Peptu, V. Harabagiu, 4th International EPNOE Junior Scientist Meeting, 3-4 Februarie 2021.

4. Alte menţiuni

Membru în echipa de cercetare a proiectelor

- Platforme dinamice pe bază de oligo/polizaharide reticulate prin reacţii de tip tiol-enă cu aplicaţii biomedicale, proiect **PN-III-P4-PCE-2021-1365**, contract de finanţare nr. PCE115/2022 (2022-2024).

- *Design of cyclodextrin-polyester-amides for special applications* (Proiect de schimburi interacademice dintre Academia Română (ICMPP, Iași) și Academia de Științe a Poloniei (Centre of Polymer and Carbon Materials Polish Academy of Sciences, Zabrze).
- *PHA-based inclusion complexes with cyclodextrin – preparation and degradation study* (Proiect de schimburi interacademice dintre Academia Română (ICMPP, Iași) și Academia de Științe a Poloniei (Centre of Polymer and Carbon Materials Polish Academy of Sciences, Zabrze).

Semnătură,

Aviz,
Conducător de doctorat
Nume și prenume: Dr. Valeria Harabagiu
Semnătură,