Şcoala Doctorală de Chimie

TEMATICA PENTRU CONCURSUL DE ADMITERE LA DOCTORAT
sesiunea iulie 2025

Prof. univ. dr. habil. Gheorghiță ZBANCIOC

1. Sinteza de noi derivati 1,2-diazinici prin metode convenționale și neconvenționale (ro)
Synthesis of new 1,2-diazine derivatives by conventional and unconventional methods (en)

Bibliografie/References

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2. Zbancioc, G.; Mangalagiu, I.I.; Moldoveanu, C. A Review on the Synthesis of Fluorescent Five- and Six-Membered Ring Azaheterocycles. *Molecules*, 2022, *27*, 6321. DOI: 10.3390/molecules27196321
3. Zbancioc, G.; Ciobanu, C.-I.; Mangalagiu, I.I.; Moldoveanu, C. Ultrasound-Assisted Synthesis of Fluorescent Azatetracyclic Derivatives: An Energy-Efficient Approach. *Molecules*, **2022**, *27*, 3180. DOI: 10.3390/molecules27103180
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8. Al Matarneh, C.; Ciobanu, I.C.; Mangalagiu,V.; Zbancioc, G.; Danac, R.: Microwave Assisted Synthesis of Six Member Ring Azaheterocycles with Antimycobacterial and Anticancer Activity, *Rev. Chim. (Bucharest)*, **2020**, *71(3)*, 287-293. DOI: 10.37358/RC.20.3.7998.
9. Al Matarneh, C.M.; Amarandi, R.M.; Craciun, A.M.; Mangalagiu, I.I.; Zbancioc, G.; Danac, R.: Design, Synthesis, Molecular Modelling and Anticancer Activities of New Fused Phenanthrolines, *Molecules*, **2020**, *25(3)*, 527. DOI: 10.3390/molecules25030527.

2. Compuși azaheterociclici cu potențial terapeutic: sinteză, proprietăți și activitate biologică (ro)
Azaheterocyclic compounds with therapeutic potential: synthesis, properties, and biological activity (en)

Bibliografie/References

1. Amariucai-Mantu, D.; Antoci, V.; Sardaru, M.C., Al Matarneh, C.M., Mangalagiu, I.; Danac, R.. Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents *Physical Sciences Reviews*, **2023**, vol. 8, no. 9, pp. 2583-2645.

2. Mangalagiu, V.; Danac, R.; Diaconu, D.; Zbancioc; G.; Mangalagiu, I.I. Hybrids Diazine: Recent Advancements in Modern Antimicrobial Therapy, *Curr. Med. Chem*., **2024**, 31(19), 2687-2705.
3. Amarandi, R. M.; Al Matarneh, C.-M.; Popovici, L.; Ciobanu, C. I.; Neamtu, A.; Mangalagiu, I. I.; Danac, R. Exploring Pyrrolo-Fused Heterocycles as Promising Anticancer Agents: An Integrated Synthetic, Biological, and Computational Approach, *Pharmaceuticals*, **2023**, 16(6), 865.
4. Craciun, A.-M.; Rotaru, A.; Cojocaru, C.; Mangalagiu, I.I.; Danac, R. New 2,9-disubstituted-1,10-phenanthroline derivatives with anticancer activity by selective targeting of telomeric G-quadruplex DNA, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 249, 119318.
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