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L I S T A
LUCRĂRILOR ŞTIINŢIFICE

A. Teza de doctorat

Cercetari in domeniul 1,10-fenantrolinei

B. Cărţi si capitole în cărţi publicate în ultimii 5 ani (2021-2025)

1. Ramona Danac, Dorina Amariucai-Mantu, Vasilichia Antoci, Gheorghita Zbancioc, Violeta Mangalagiu, Ionel I. Mangalagiu, Microwave assisted reactions for synthesis of bioactive azaheterocycles:, capitol de carte in: *Current Advances in Chemistry and Biochemistry*, vol. 3, Book Publisher International, **2021**, 17-50. (ISSN: 978-93-90768-91-2 (eBook))

2. D. Amariucai-Mantu, V. Antoci, M. C. Sardaru, C. M. Al Matarneh, I. Mangalagiu, **R. Danac***, Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents, in *Heterocyclic Anticancer Agents*, Ed. Bimal Krishna Banik and Bubun Banerjee, De Gruyter, Berlin/Boston, **2022**, 185-247. (ISBN: 978-3-11-073926-8).

3. Violeta Mangalagiu, **Ramona Danac**, Anda-Mihaela Olaru, Dumitrela Diaconu, Ionel I. Mangalagiu, Antimycobacterial Activity of Nitrogen Heterocycles Compounds with Indolizine Skeleton, in Chemistry and Biochemistry: Research Progress Vol. 1, Ed. Oscar Jaime Restrepo Baena, BP International, London, **2025**, 160–188. (ISBN 978-93-49238-76-3 (Print). ISBN 978-93-49238-38-1 (eBook)). https://doi.org/10.9734/bpi/cbrp/v1/3855

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

1. R. Ciorteanu, C.I. Ciobanu, N. Cibotariu, S. Shova, V. Antoci, I. I. Mangalagiu, **R. Danac**[*], Functionalized Indolizines as Potential Anticancer Agents: Synthetic, Biological and In Silico Investigations, *Int. J. Mol. Sci.*, (2025), **26(17)**, 8368.
2. R. Ciorteanu, A. Danila, C. I. Ciobanu, I. Radu, I. I. Mangalagiu, R. Danac, Efficient Synthesis of Unsymmetrical 7,7′-Biindolizines, *Molbank*, (2025), **2025**, M2074.
3. C. Moldoveanu, I. I. Mangalagiu, G. Zbancioc[*], **R. Danac**[*], G. Tataringa, A. M. Zbancioc, Anticancer Potential of Azatetracyclic Derivatives: In Vitro Screening and Selective Cytotoxicity of Azide and Monobrominated Compounds, *Molecules*, (2025), **30(3)**, 702.

4. A. Al-Matarneh, N. Simionescu; A. Nicolescu, N. Cibotariu, R. Danac, M. C. Al-Matarneh, I. I. Mangalagiu, Pyrrolo-Fused Phenanthridines as Potential Anticancer Agents: Synthesis, Prediction, and Biological Evaluation, *J. Biochem. Mol. Toxicol.*,(2025), **39(9)**, e70443.
5. C. M. Al Matarneh, A. Nicolescu*, S. Shova, M. Apostu, R. Puf, F. Mocci, A. Laaksonen, I. I. Mangalagiu, **R. Danac***, Revisiting Fused-Pyrrolo-1,10-Phenanthroline Derivatives: Novel Transformations and Stability Studies, *ChemistryOpen*, (2025), **14(7)**, e202400365.
6. M. C. Al-Matarneh, A. Nicolescu, I.-A. Dascalu, S. Shova, C.-D. Varganici, A. Fifere, R. Danac, I.-C. Marinas, Synthesis of New Zinc and Copper Coordination Polymers Derived from Bis (Triazole) Ligands, *Crystals*, (2024), **14**, 144.
7. V. Mangalagiu, R. Danac, D. Diaconu, G. Zbancioc, I.I. Mangalagiu, Hybrids Diazine: Recent Advancements in Modern Antimicrobial Therapy, *Curr. Med. Chem.*, (2024), **31(19)**, 2687- 2705.
8. M.-C. Sardaru, C.-M. Al Matarneh, N. Simionescu, I.I. Mangalagiu, M. Pinteala, **R. Danac**, New Monoquaternary Salts of N-Heterocycles: Synthesis and Antitumor Assesment, *Rev. Roum. Chim.*, (2024), **69(1-2)**, 63-74.
9. C. Doroftei, L. Leontie, **R. Danac**, C.M. Al-Matarneh, A. Carlescu, Exploring Pyrrolo-Phenanthrolines as Semiconductors for Potential Implementation in Organic Electronics, *Materials*, (2023), **16(9)**, 3366.
10. L. Oniciuc, D. Amariucai-Mantu, D. Diaconu, V. Mangalagiu, R. Danac, V. Antoci, I.I. Mangalagiu, Benzoquinoline Derivatives: An Attractive Approach to Newly Small Molecules with Anticancer Activity, *Int. J. Mol. Sci.*, (2023), **24(9)**, 8124.
11. R. M. Amarandi, C.-M. Al Matarneh, L. Popovici, C. I. Ciobanu, A. Neamtu, I. I. Mangalagiu, **R Danac***, Exploring Pyrrolo-Fused Heterocycles as Promising Anticancer Agents: An Integrated Synthetic, Biological, and Computational Approach, *Pharmaceuticals*, (2023), 16(6), 865.
12. C. Doroftei, A. Carlescu, L. Leontie, R. Danac, C.M. Al-Matarneh, Structural, Electrical and optical properties of pyrrolo[1,2-*i*][1,7] phenanthroline based organic semiconductors, *Materials*, (2022), **15(5)**, 1684.
13. D. Amariucai-Mantu, V. Antoci, M. C. Sardaru, C. M. Al Matarneh, I. Mangalagiu, **R. Danac***, Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents, *Phys. Sci. Rev.*, (2023), **8(9)**, 2583-2645.
14. C.M. Al Matarneh*, I. Rosca, S. Shova, **R. Danac***, Synthesis and properties of new fused pyrrolo-1,10-phenathroline type derivatives, *J. Serb. Chem. Soc.*, (2021), **86(10)**, 901-915.
15. C.M. Al Matarneh, R. M. Amarandi, I. I. Mangalagiu, **R. Danac***, Synthesis and biological screening of new cyano-substituted pyrrole fused (iso)quinoline derivatives, *Molecules*, (2021), **26**, 2066.
16. A.-M. Craciun, A. Rotaru, C. Cojocaru, I.I. Mangalagiu, **R. Danac***, 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.

D. Lucrări publicate în ultimii 5 ani (2021-2025) în reviste şi volume de conferinţe cu referenţi (neindexate)

- Reviste

1.

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1.

E. Brevete obţinute în întreaga activitate

1. Mangalagiu, I.I.; Amăriucăi-Mantu, D.; Antoci, V.; Zbancioc, G.; Moldoveanu, C.; Cucu, D.; Dănac, R.; Mangalagiu, V.: Process for obtaining a novel class of anthracene-imidazole compounds with antitubeculosis activity/Procedeu pentru obţinerea unei noi clase de compuşi antracen-imidazolici cu activitate antituberculoasă, patent no. RO134192-A0/2020, Oficiul de Stat pentru Invenţii şi Mărci, Property Rights Owner: Universitatea „Alexandru Ioan Cuza" din Iaşi, România

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