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L I S T A LUCRĂRILOR ȘTIINȚIFICE

A. Teza de doctorat

1996: Doctor în Chimie. Titlul tezei de doctorat:

"NOI COMPUȘI ILIDICI ÎN SERIA 1,2-DIAZINELOR"

sub conducerea prof. dr. doc. MAGDA PETROVANU

2002: Conducător de doctorat, Specialitatea – Chimie (Ordinul MEC 3573/19.04.2002).

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

1. Pradip K. Bhowmik (Ed), In: Current Advances in Chemistry and Biochemistry, 2021, Vol. 3, London / Kolkata. Publisher: Book Publisher International, ISBN 978-93-90768-93-6 (Print); ISBN 978-93-90768-91-2 (eBook); DOI: 10.9734/bpi/cacb/v3

Chapter 02- Microwave Assisted Reactions for Synthesis of Bioactive Azaheterocycles, by: R. Danac, D. Amariuca-Mantu, V. Antoci, G. Zbancioc, V. Mangalagiu, Ionel I. Mangalagiu, 2021, Vol. 3, pages 17-50. <https://doi.org/10.9734/bpi/cacb/v3/7477D>

2. Banik, K.B.; Banerjee, B. (Ed), In: Heterocyclic Anticancer Agents, 2022, Berlin, Boston. Publisher: De Gruyter, Hardcover ISBN: 9783110739268, eBook ISBN: 9783110735772. <https://doi.org/10.1515/9783110735772>

Chapter 6 - Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents, by: D. Amariuca-Mantu, V. Antoci, M. C. Sardaru, C. M. Al Matarneh, Ionel I. Mangalagiu and R. Danac, pp. 185-246.

3. Restrepo Baena, O.J. (Ed.), In: Chemistry and Biochemistry: Research Progress Vol. 1, 2025, London / Kolkata. Publisher: Book Publisher International, ISBN 978-93-49238-76-3 (Print), ISBN 978-93-49238-38-1 (eBook), DOI: <https://doi.org/10.9734/bpi/cbrp/v1>

Chapter 10 - Mangalagiu, V. ., Danac, R. ., Olaru, A.-M. ., Diaconu, D. ., & Mangalagiu, I. I. . (2025). Antimycobacterial Activity of Nitrogen Heterocycles Compounds with Indolizine Skeleton. Chemistry and Biochemistry: Research Progress Vol. 1, 160–188. <https://doi.org/10.9734/bpi/cbrp/v1/3855>

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

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239. Lungu, C.N.; Mangalagiu, I.I.*; Romila, A.; Nechita, A.; Putz, M.; Mehedinti, M.C. Molecular Mediated Angiogenesis and Vasculogenesis Networks. *International Journal of Molecular Sciences (Int. J. Mol. Sci.)* 2025, 26, 6316. Publisher: Molecular Diversity Preservation International, ISSN: 1422-0067 <https://doi.org/10.3390/ijms2613631>

238. Ciorteanu, R.; Ciobanu, C.I.; Cibotariu, N.; Shova, S.; Antoci, V.; Mangalagiu, I.I.; Danac, R. Functionalized Indolizines as Potential Anticancer Agents: Synthetic, Biological and In Silico Investigations. *International Journal of Molecular Sciences (Int. J. Mol. Sci.)* 2025, 26, 8368. Publisher: Molecular Diversity Preservation International, ISSN: 1422-0067 <https://doi.org/10.3390/ijms26178368>

237. Balaes, T.; Mangalagiu, V.; Antoci, V.; Amariuca-Mantu, D.; Diaconu, D.; Mangalagiu, I.I.* Hybrid bis-(imidazole/benzimidazole)-pyridine derivatives with antifungal activity of potential interest in medicine and agriculture via improved efficiency methods. *Pharmaceuticals* 2025, 18(4), 495. Publisher: MDPI, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND. ISSN:1999-4923 <https://doi.org/10.3390/ph18040495>

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234. Lungu, C.; Mihai, C.-T.; Vochita, G.; Gherghel, D.; Mangalagiu, I.I.; Gafton, M.; Miron, S.-D.; Iurciuc Tincu, C.-E.; Nahar, L.; Sarker, S.D.; Miron, A. Stilbene Glycosides in *Pinus cembra* L. Bark: Isolation, Characterization, and Assessment of Antioxidant Potential and Antitumor Activity on HeLa Cells. *Plants-Basel* 2025, 14, 1459. Publisher: MDPI, Grosspeteranlage 5, 4052 Basel, Switzerland. ISSN: 223-7747 <https://doi.org/10.3390/plants14101459>

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<https://doi.org/10.1002/jbt.70443>

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231. Moldoveanu, C.; Mangalagiu, I.I.; Zbancioc, G.; Danac, R.; Tataringa, G.; Zbancioc, A.M. Anticancer Potential of Azatetracyclic Derivatives: In Vitro Screening and Selective Cytotoxicity of Azide and Monobrominated Compounds. *Molecules* 2025, 30, 702. Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049

<https://doi.org/10.3390/molecules30030702>

230. Mangalagiu, I.I.*; Darabantu, M. Advances in the Synthesis of Heterocyclic Compounds and Their Applications. *Molecules* 2025, 30, 3723. Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049

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224. Zbancioc, G.; Mangalagiu, I.I.*; Moldoveanu, C. The Effective Synthesis of New Benzoquinoline Derivatives as Small Molecules with Anticancer Activity. *Pharmaceuticals* 2024, 17, 52. MDPI, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND ISSN: eISSN: 1424-8247.
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223. Mangalagiu, V.; Danac, R.; Diaconu, D.; Zbancioc, G.; Mangalagiu, I.I.* Hybrids diazine: Recent Advancements in Modern Antimicrobial Therapy. *Current Medicinal Chemistry (Curr. Med. Chem.)* 2024, 31(19), 2687-2705. Bentham Science Publishers, ISSN (Print): 0929-8673; ISSN (Online): 1875-533X
DOI: 10.2174/0929867330666230418104409

222. Balaes, T.; Marandis, C.G.; Mangalagiu, V.; Glod, M.; Mangalagiu, I.I.* New insides into chimeric and hybrid azines derivatives with antifungal activity. *Future Medicinal Chemistry (Future Med. Chem.)* 2024, 16(11), 1163–1180 .TAYLOR & FRANCIS LTD2-4 PARK SQUARE, MILTON PARK, ABINGDON OR14 4RN, OXON, ENGLAND. ISSN: 1756-8919
<https://doi.org/10.1080/17568919.2024.2351288>

221. Sardaru, M.C.; Al Matarneh, C.M.; Simionescu, N.; Mangalagiu, I.I.; Pinteala, M.; Danac, R. New Monoquaternary Salts of N-Heterocycles: Synthesis and Antitumor Assessment. *Revue Roumaine Chimie (Rev. Roum. Chim.)* 2024, 69(1–2), 63–74. Publisher: Editura Academiei Romane, CODEN: RRCHAX ISSN: 0035-3930.
DOI: 10.33224/rrch.2024.69.1-2.08

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220. Oniciuc, L.; Amăriucăi-Mantu, D.; Diaconu, D.; Mangalagiu, V.; Danac, R.; Antoci, V.; Mangalagiu, I.I.* Benzoquinoline Derivatives: An Attractive Approach to Newly Small Molecules with Anticancer Activity. *International Journal of Molecular Sciences (Int. J. Mol. Sci.)* 2023, 24, 8124. Publisher: Molecular Diversity Preservation International, ISSN: 1422-0067

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218. Rusu, O.R.; Mangalagiu, I.I.; Mantu-Amăriucăi, D.; Teliban, G.-C.; Cojocaru, A.; Burducea, M.; Mihalache, G.; Rosca, M.; Caruso, G.; Skara, A.; Stoleru, V. Interaction Effects of Cultivars and Nutrition on Quality and Yield of Tomato. *Horticulturae* 2023, 9(5), 541. Publisher: Molecular Diversity Preservation International, ISSN: 2311-7524

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217. Stoleru V, Mangalagiu, I.I; Amăriucăi-Mantu D, Teliban G-C, Cojocaru A, Rusu O-R, Burducea M, Mihalache G, Rosca M, Caruso G, Sekara A; Jităreanu, G. Enhancing the nutritional value of sweet pepper through sustainable fertilization management. *Frontiers in Nutrition (Front. Nutr.)* 2023, 10, 1264999. Publisher: Frontiers Media SA, Avenue du Tribunal-Fédéral 34,1005 Lausanne, Switzerland. ISSN 2296-861X (Electronic)

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<https://doi.org/10.1016/j.heliyon.2023.e21518>

215. Amărandi, R.-M.; Al-Matarneh, M.-C.; Popovici, L.; Ciobanu, C.I.; Neamțu, A.; Mangalagiu, I.I.; Danac, R. Exploring Pyrrolo-Fused Heterocycles as Promising Anticancer Agents: An Integrated Synthetic, Biological, and Computational Approach. *Pharmaceuticals* 2023, 16, 865. MDPI, ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND ISSN: eISSN: 1424-8247.

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214. Tucaliuc, R.A.; Mangalagiu, V.; Mangalagiu, I.I.* Pyridazinic Bioisosteres with Potential Applications in Medicinal Chemistry and Agriculture. *Processes* 2023, 11, 2306. Publisher: Molecular Diversity Preservation International, CODEN: PROCCO; ISSN: 2227-9717

<https://doi.org/10.3390/pr11082306>

213. Mangalagiu, I.I.* Huisgen 3+n Dipolar Cycloaddition Reactions: An Accessible and Useful Tool in Modern Organic and Heterocycle Synthesis. *Molecules* 2023, 28, 5692. Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049

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212. Lungu, C.N.; Mangalagiu, I.I. Editorial for Special Issue - „Research Progress and Applications of Natural Products”. *Molecules* 2023, 28, 5449. Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049
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211. Lungu, C.N.; Mangalagiu, V.; Mangalagiu, I.I.*; Mehedinti, M.C. Benzoquinoline Chemical Space: A Helpful Approach in Antibacterial and Anticancer Drug Design. *Molecules* 2023, 28, 1069. Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049
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210. Lobiuc, A.; Paval, N.-E.; Mangalagiu, I.I.*; Gheorghit, R.; Teliban, G.-C.; Amariuca-Mantu, D.; Stoleru, V. Future Antimicrobials: Natural and Functionalized Phenolics. *Molecules* 2023, 28, 1114. Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049
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209. Lungu, L.; Blaja, S.; Cucicova, C.; Ciocarlan, A.; Barba, A.; Kulcički, V.; Shova, S.; Vornicu, N.; Geana, E.-I.; Mangalagiu, I.I.; Aricu, A. Synthesis and Antimicrobial Activity Evaluation of Homodrimane Sesquiterpenoids with a Benzimidazole Unit. *Molecules* 2023, 28, 933. Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049
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208. Amariuca-Mantu, D.; Antoci, V.; Sardaru, M. C.; Al Matarneh, C. M.; Mangalagiu, I.I.; Danac, R. Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents. *Physical Sciences Reviews (Phys. Sci. Rev.)* 2023, 8(9), 2583-2645. Publisher WALTER DE GRUYTER GMBH GENTHNER STRASSE 13, D-10785 BERLIN, GERMANY. ISSN 2365-6581; eISSN 2365-659X.
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206. Diaconu, D.; Antoci, V.; Mangalagiu, V.; Amariuca-Mantu, D.; Mangalagiu, I.I.* Quinoline - imidazole/benzimidazole derivatives as dual- / multi- targeting hybrids inhibitors with anticancer and antimicrobial activity. *Scientific Reports (Sci. Rep.)* 2022, 12, 16988 (pp 1-15).
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201. Lungu, L.; Cucicova, C.; Blaja, S.; Ciocarlan, A.; Dragalin, I.; Barba, A.; Vornicu, N.; Geana, E.-I.; Mangalagiu, I.I.; Aricu, A. Synthesis of Homodrimane Sesquiterpenoids Bearing 1,3-Benzothiazole Unit and Their Antimicrobial Activity Evaluation. *Molecules* 2022, 27, 5082.
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200. Diaconu, D.; Amariuci-Mantu, D.; Antoci, V.; Ciorteanu, R.; Mangalagiu, V.; Mangalagiu, I.I.* DESIGN AND SYNTHESIS OF NEW HYBRID PYRIDINE-IMIDAZOLIUM/BENZIMIDAZOLIUM SALTS WITH ANTIBACTERIAL ACTIVITY, *Revue Roumaine Chimie (Rev. Roum. Chim.)* 2022, 67(1-2), 85–88. Publisher: Editura Academiei Romane, CODEN: RRCHAX ISSN: 0035-3930.
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193. Al-Matarnah, M.C.; Amaranandi, R.-M.; Mangalagiu, I.I.; Danac, R. Synthesis and Biological Screening of New Cyano-Substituted Pyrrole Fused (Iso)Quinoline Derivatives. *Molecules* 2021, 26, 2066 (pp. 1-19). Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049. doi: 10.3390/molecules26072066

192. Amariuca-Mantu, D.; Mangalagiu, V.; Mangalagiu, I.I.* [3 + n] Cycloaddition Reactions: A Milestone Approach for Elaborating Pyridazine of Potential Interest in Medicinal Chemistry and Optoelectronics. *Molecules* 2021, 26, 3359 (pp 1-17). Publisher: Molecular Diversity Preservation International, CODEN: MOLEFW ISSN: 1420-3049. <https://doi.org/10.3390/molecules26113359>

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

- Reviste

Papers published in proceedings:

1. Ionel I. Mangalagiu, Dorina Amariuca-Mantu, Vasilichia Antoci, Ramona Danac, Violeta Mangalagiu, Costel Moldoveanu, Gheorghita Zbancioc. Hybrid five- and six-member ring azaheterocycles: synthesis and applications. Progress in Organic and Macromolecular Compounds 28-th Ed., Iasi, Romania, October 7-9, 2021. (Plenary lecture, PL, pag. 25-26).

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2. Roxana Ciorteanu, Vasilichia Antoci, Dorina Amariuca-Mantu, Catalina Ciobanu, Violeta Mangalagiu, Ionel I. Mangalagiu. New hybrid quaternary salts with sulfanylamide/benzimidazole skeleton. Progress in Organic and Macromolecular Compounds 28-th Ed., Iasi, Romania, October 7-9, 2021. (Poster presentation, pag. 107-108).

Book of Abstracts / editors:

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