

Lista lucrărilor publicate și prezentate

1. Lucrări publicate în jurnale ISI (indexate Web of Science) (Regular papers): 31

1. Rusu, O.-R.; Mangalagiu, I.; **Amăriucăi-Mantu, D.**; Teliban, G.-C.; Cojocaru, A.; Burducea, M.; Mihalache, G.; Roșca, M.; Caruso, G.; Sekara, A.; Stoleru, V.: *Interaction Effects of Cultivars and Nutrition on Quality and Yield of Tomato, Horticulturae*, **2023**, 9(5), 541. <https://doi.org/10.3390/horticulturae905054> (IF/2021=2.923)
2. Lobiuc, A.; Pavăl, N.-E.; Mangalagiu, I.I.; Gheorghită, R.; Teliban, G.-C.; **Amăriucăi-Mantu, D.**; Stoleru, V.: *Future Antimicrobials: Natural and Functionalized Phenolics, Molecules*, **2023**, 28(3), 1114. <https://doi.org/10.3390/molecules28031114> (IF/2021=4.927)
3. Diaconu, D.; Antoci, V.; Mangalagiu, V.; **Amăriucăi-Mantu, D.**; Mangalagiu, I.I.: Quinoline-imidazole/benzimidazole derivatives as dual-/multi-targeting hybrids inhibitors with anticancer and antimicrobial activity, *Sci. Rep.*, **2022**, 12(1), 16988. DOI: [10.1038/s41598-022-21435-6](https://doi.org/10.1038/s41598-022-21435-6) (IF/2021=4.997)
4. **Amăriucăi-Mantu, D.**; Mangalagiu, V.; Bejan, I.; Aricu, A.; Mangalagiu, I.I.: *Hybrid Azine Derivatives: A Useful Approach for Antimicrobial Therapy, Pharmaceutics*, **2022**, 14(10), 2026. DOI: [10.3390/pharmaceutics14102026](https://doi.org/10.3390/pharmaceutics14102026) (IF/2021=6.525)
5. Stoleru, V.; Vitanescu, M.; Teliban, G.-C.; Cojocaru, A.; Vlase, L.; Gheldiu, A.M.; Mangalagiu, I.; **Amăriucăi-Mantu, D.**; Burducea, M.; Zheljazkov, V.; Rusu, O.R.: *Phytosterol and Polyphenol Contents and Quinoa Leave Yields Variation in Relationships to Variety, Density and Harvesting Date, Agronomy-Basel*, **2022**, 12(10), 2397. DOI: [10.3390/agronomy12102397](https://doi.org/10.3390/agronomy12102397) (IF/2021=3.949)
6. Diaconu, D.; **Amăriucăi-Mantu, D.**; Antoci, V.; Ciorteanu, R.; Mangalagiu, V.; Mangalagiu, I.I.: *Design and Synthesis of New Hybrid Pyridine-imidazolium/benzimidazolium Salts with Antibacterial Activity, Rev. Roum. Chim.*, **2022**, 67(1-2), 85-88, <https://doi.org/10.33224/rch.2022.67.1-2.07> (IF/2021=0.41) (autor corespondent)
7. Diaconu, D.; **Amăriucăi-Mantu, D.**; Mangalagiu, V.; Antoci, V.; Zbancioc, G.; Mangalagiu, I.I.: *Ultrasound assisted synthesis of hybrid quinoline-imidazole derivatives: a green synthetic approach, RSC Adv*, **2021**, 11(60), 38297. <https://doi.org/10.1039/D1RA07484A> (IF/2021=4.036)
8. **Amăriucăi-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(11), 3359. <https://doi.org/10.3390/molecules26113359> (IF/2021=4.927)
9. Antoci, V.; Oniciuc, L.; **Amăriucăi-Mantu, D.**; Moldoveanu, C.; Mangalagiu, V.; Amarandei, A.M.; Lungu, C.N.; Dunca, S.; Mangalagiu, I.I.; Zbancioc, G.: *Benzoquinoline Derivatives: A Straightforward and Efficient Route to Antibacterial and Antifungal Agents, Pharmaceutics*, **2021**, 14(4), 335. ISSN: 1424-8247. <https://doi.org/10.3390/ph14040335> (IF/2021=5.215)
10. Diaconu, D.; Mangalagiu, V.; **Amăriucăi-Mantu, D.**; Antoci, V.; Giuroiu, C.L.; Mangalagiu, I.I.: *Hybrid quinoline – sulfonamide complexes (M^{2+}) derivatives with antimicrobial activity, Molecules*, **2020**, 25(12), 2946. <https://doi.org/10.3390/molecules25122946> (IF/2021=4.927)
11. **Amăriucăi-Mantu, D.**; Mangalagiu, V.; Dănac, R.; Mangalagiu, I.I.: *Microwave Assisted Reactions of Azaheterocycles For medicinal Chemistry Applications, Molecules*, **2020**, 25(3), 716. <https://doi.org/10.3390/molecules25030716> (IF/2021=4.927)
12. Antoci, V.; Cucu, D.; Zbancioc, G.; Moldoveanu, C.; Mangalagiu, V.; **Amăriucăi-Mantu, D.**; Aricu, A.; Mangalagiu, I.I.: *Bis-(imidazole/benzimidazole)-pyridine derivatives: synthesis, structure and antimicrobial activity. Part XII, Future Med. Chem.*, **2020**, 12(3), 207-222. doi: [10.4155/fmc-2019-0063](https://doi.org/10.4155/fmc-2019-0063). (IF/2021=4.767)
13. Moldoveanu, C.; **Amăriucăi-Mantu, D.**; Mangalagiu, V.; Antoci, V.; Maftai, D.; Mangalagiu, I.I.; Zbancioc, G.: *Microwave Assisted Reactions of Fluorescent Pyrrolodiazine Building Blocks, Molecules*, **2019**, 24(20), 3760, **2019**. [http://dx.doi.org/10.3390/molecules24203760](https://doi.org/10.3390/molecules24203760) (IF/2021=4.927)

14. Cucu, D.; Mangalagiu, V.; **Amăriucăi-Mantu, D.**; Antoci, V.; Mangalagiu, I.I.: *Imidazolium ylides: Cycloaddition versus hydrolysis*, *STUDIA UBB CHEMIA*, **2019**, **64**(3), 59-66. DOI:10.24193/subbchem.2019.3.05 (IF/2021=0.558)
15. **Mantu, D.**; Antoci, V.; Nicolescu, A.; Deleanu, D.; Vasilache, V.; Mangalagiu, I.I.: *Synthesis, Stereochemical Studies and Antimycobacterial Activity of New Acetylhydrazine Pyridazinones*, *Curr. Org. Synth.*, **2017**, **14**(1), 112-119. DOI: 10.2174/1570179413999160219164248 (IF/2021=2.276)
16. **Mantu, D.**; Antoci, V.; Moldoveanu, C.; Zbancioc, Ghe.; Mangalagiu, I.I.: *Hybrid imidazole (benzimidazole)/pyridine (quinoline) derivatives and evaluation of their anticancer and antimycobacterial activity*, *J. Enzym. Inhib. Med. Chem.*, **2016**, **31**(2), 96-103. <https://doi.org/10.1080/14756366.2016.1190711> (IF/2021=5.756)
17. Antoci, V.; Humelnicu, I.; Vasilache, V.; **Mantu, D.**: *Synthesis, Structure and Biological Activity of Some Hybrid Benzimidazole / Quinoline bis-pyridazine Derivatives*, *Revista de Chimie*, **2016**, **67**(9), 1713-1716. (IF/2016=1.232)
18. Moldoveanu C.; Zbancioc G.; **Mantu D.**; Maftai D.; Mangalagiu I.: *The Cycloaddition of the Benzimidazolium Ylides with Alkynes: New Mechanistic Insights*, *PLoS ONE*, **2016**, **11**(5): e0156129. <https://doi.org/10.1371/journal.pone.0156129> (IF/2021=3.752)
19. **Mantu, D.**; Antoci, V.; Vasilache, V.; Luca, C.: *Structure and Anticancer Activity of Some bis-pyridazine Derivatives*, *Revista de Chimie*, **2016**, **67**(1), 127-130. (IF/2019=1.755)
20. Ciobanu, C. I.; Antoci, V.; **Mantu, D.**; Mangalagiu, I. I.: *One Pot Synthesis of Cyclophane with Imidazolium Skeleton. An Improved Method*, *Revista de Chimie*, **2015**, **66**(4), 497-498. (IF/2019=1.755)
21. **Mantu, D.**; Maftai, D.; Iurea, D.; Ursu, C.; Bejan, V.: *Synthesis, structure, and in vitro anticancer activity of new polycyclic 1,2-diazines*, *Med Chem Res*, **2014**, **23**(6), 2909-2915. DOI 10.1007/s00044-013-0878-8 (IF/2021=2.351)
22. Antoci, V.; **Mantu, D.**; Cozma, D. G.; Ursu, C.; Mangalagiu, I. I.: *Hybrid anticancer 1,2- diazine derivatives with multiple mechanism of action. Part 3 [4,5]*, *Med. Hypotheses*, **2014**, **82**(1), 11-15. <http://dx.doi.org/10.1016/j.mehy.2013.10.024> (IF/ 2021=4.411)
23. Tucaliuc R. A.; Cotea, V. V.; Niculaua, M.; Tuchilus, C.; **Mantu, D.**; Mangalagiu, I. I.: *New pyridazine-fluorine derivatives: Synthesis, chemistry and biological activity. Part II*, *Eur. J. Med. Chem.*, **2013**, **67**(1), 367-372. DOI: 10.1016/j.ejmech.2013.04.069 (IF/2021=7.088)
24. Maftai, D.; **Mantu, D.**; Bejan (Antoci), V.: *Crystal Structure of 8-(4-methylbenzoyl)benzo [5,6]isoindolo [1,2-a]phthalazine-9,14-dione*, *Revista de Chimie*, **2013**, **64**(3), 301-303. (IF/2019=1.755)
25. **Mantu, D.**; Maftai, D.; Iurea, D.; Bejan (Antoci), V.: *Crystal Structure of Ethyl 5,10-dioxo-5,10-dihydrobenzo[f]pyridazino[6,1-a]isoindole-11-carboxylate*, *Revista de Chimie*, **2012**, **63**(12), 1239-1242. (IF/2019=1.755)
26. Bejan, V.; **Mantu, D.**; Mangalagiu, I. I.: *Ultrasound and microwave assisted synthesis of isoindolo-1,2-diazine: A comparative study*, *Ultrason. Sonochem.*, **2012**, **19**(5), 999-1002. <https://doi.org/10.1016/j.ultsonch.2012.02.012> (IF/2021=9.336)
27. **Mantu, D.**; Luca, M. C.; Moldoveanu, C.; Zbancioc, G.; Mangalagiu, I. I.: *Synthesis and antituberculosis activity of some new pyridazine derivatives. Part II*, *Eur. J. Med. Chem.*, **2010**, **45**(11), 5164-5168. <https://doi.org/10.1016/j.ejmech.2010.08.029> (IF/2021=7.088)
28. Zbancioc, G.; Zbancioc, A. M.; **Mantu, D.**; Miron, A.; Tanase, C.; Mangalagiu, I. I.: *Ultrasonics-assisted synthesis of highly functionalized acetophenone derivatives in heterogeneous catalysis*, *Rev. Roum. Chim.*, **2010**, **55**(11-12), 983-987. (IF/2021=0.41)
29. Humelnicu, D.; Arsene, C.; Burghele, B.; Bertescu, M.; Humelnicu, I.; Sandu, I.; **Mantu, D.**; Olariu, R.-I.: *Interaction of Actinide Cations with Heteropolyoxotungstate Ions [SiW11O39]8- and [SiW12O40]4-*, *Revista de Chimie*, **2010**, **61**(9), 841-844. (IF/2019=1.755)
30. Simionescu, M.; Săcărescu, L.; Săcărescu, G.; **Mantu, D.**; Mangalagiu, I. I.: *Silicon based materials for biooptoelectronics*, *Rom. Biotech. Lett.*, **2009**, **14**(3), 4395-4401. (IF/2019= 0.765)
31. **Mantu, D.**; Moldoveanu, C.; Nicolescu, A.; Deleanu, C.; Mangalagiu, I. I.: *A facile synthesis of pyridazinone derivatives under ultrasonic irradiation*, *Ultrason. Sonochem.*, **2009**, **16**(4), 452-454. <https://doi.org/10.1016/j.ultsonch.2008.11.012> (IF/2021=9.336)

2. Lucrări publicate în jurnale non-ISI (indexate Web of Science) (Regular papers): 2

1. **Amăriucăi-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*, **2022**. <https://doi.org/10.1515/psr-2021-0030>
2. **Amăriucăi-Mantu, D.**; Mangalagiu, V.; Ciobanu, C.-I.; Antoci, V.: *Hybrid Pyridine Bis-Anthracene-Imidazolium Salt: NMR Studies on Zn-Acetate Complexation*, *Molbank* **2021**, 2021(3), M1280. <https://doi.org/10.3390/M1280> (corresponding author)

3. Lucrări publicate în jurnale ISI (Proceedings): 4

1. Mangalagiu, I.I.; Diaconu, D.; **Amăriucăi-Mantu, D.**; Moldoveanu, C.; Zbancioc, Ghe.; Danac, R.; Antoci, V.; Mangalagiu, V.: *New achievements in medicinal chemistry of (di)azole and (di)azine*, *Journal of Organic & Inorganic Chemistry*, volume 6, pag. 04, **2020**. ISSN: 2472-1123. DOI: 10.36648/2472-1123.6.3.5 (IF/2019=**0.67**) (Proceeding of 3rd International Conference on Organic Chemistry 2020, Berlin, Germania, online, 23 Iulie 2020). <https://organic-inorganic.imedpub.com/new-achievements-in-medicinal-chemistry-of-diazole-and-di-azine.pdf>
2. **Amăriucăi-Mantu, D.**; Antoci, V.; Loiseau, P.; Cojean, S.; Mangalagiu, I.I.: *New bis-pyridazine derivatives: synthesis, structure and their potential interest in Leishmaniasis*, *Journal of Chemical Sciences*, volume 9, page 32, **2018**. ISSN: 2150-3494. DOI: [10.4172/2150-3494-C4-026](https://doi.org/10.4172/2150-3494-C4-026) (Proceeding of 5th International Conference on Organic and Inorganic Chemistry, July 12-13, 2018, Paris, France). (IF/2019=**1.406**)
3. Cucu, D.; **Amăriucăi-Mantu, D.**; Antoci, V.; Mangalagiu, I.I.: *Quinoline derivatives anchored with imidazole moiety: synthesis, structure and biological activity*, *Journal of Chemical Sciences*, volume 9, page 44, **2018**. ISSN: 2150-3494. DOI: [10.4172/2150-3494-C4-027](https://doi.org/10.4172/2150-3494-C4-027) (Proceeding of 5th International Conference on Organic and Inorganic Chemistry, July 12-13, 2018, Paris, France) (IF/2019=**1.406**)
4. Mangalagiu, V.; **Amăriucăi-Mantu, D.**; Cucu, D.; Antoci, V.; Mangalagiu, I.I.: *Azaheterocycles with antimycobacterial activity*, *Journal of Chemical Sciences*, volume 9, page 50, **2018**. ISSN: 2150-3494. DOI: [10.4172/2150-3494-C4-027](https://doi.org/10.4172/2150-3494-C4-027) (Proceeding of 5th International Conference on Organic and Inorganic Chemistry, July 12-13, 2018, Paris, France) (IF/2019=**1.406**)

4. Articole științifice publicate în reviste internaționale indexate în BDI: 6 (regular paper 3; proceedings 3)

1. **Amăriucăi-Mantu, D.**; Mangalagiu, I.I.; Antoci, V.: *Synthesis of Benzo[f]Quinoline and its Derivatives: Mini Review*, *Med. & Analy. Chem. Int. J.*, **2019**, 3(1), 1-10. ISSN: [2639-2534](https://doi.org/10.23880/macij-16000133), DOI: 10.23880/macij-16000133. (autor corespondent) (Regular paper) (indexat în: Google Scholar, Academic Resource Index, Advanced Science Index, Index Copernicus International, Publons, Scilit)
2. **Amăriucăi-Mantu, D.**; Mangalagiu, I.I.; Antoci, V.; Mangalagiu, V.: *Bis-Pyridazine Derivatives with Anticancer Activity*, *Proceedings* **2019**, 22, 6; doi:10.3390/proceedings2019022006 (Indexing & Abstracting Services: [DOAJ - Directory of Open Access Journals](https://doi.org/10.23880/macij-16000133)) (ISSN: 2504-3900) (Proceedings of 2nd Molecules Medicinal Chemistry Symposium (MMCS2019), 15 – 17 May **2019**, Barcelona, Spain)
3. Antoci, V.; **Amăriucăi-Mantu, D.**; Mangalagiu, V.; Danac, R.; Mangalagiu, I.I.: *Design, synthesis, and anticancer evaluation of fused 1,2-diazine derivatives*, *Proceedings* **2019**, 22, 26; doi:10.3390/proceedings2019022026 (Indexing & Abstracting Services: [DOAJ - Directory of Open Access Journals](https://doi.org/10.23880/macij-16000133)) (ISSN: 2504-3900) (Proceedings of 2nd Molecules Medicinal Chemistry Symposium (MMCS2019), 15 – 17 May **2019**, Barcelona, Spain.)
4. **Amăriucăi-Mantu, D.**; Antoci, V.; Mangalagiu, I.I.: *Acetylhydrazine Bis-pyridazinones: Synthesis and Stereochemistry*, *Organic Chemistry: Current Research*, volume 7, page 62, **2018**. ISSN: 2161-0401. DOI: [10.4172/2161-0401-C1-022](https://doi.org/10.4172/2161-0401-C1-022) (Proceeding of 4th European Organic Chemistry Congress, March 01-03, 2018,

London, UK) (Indexing and Archiving: Google Scholar, Academic Resource Index, CiteFactor, EBSCO, Publons, WorldCat).

5. El Bouzdoudi, B.; Nejjar El Ansari, Z.; Mangalagiu, I.; **Mantu, D.**; Badoc, A.; Lamarti, A.: *Determination of polyphenols content in Carob Pulp from wild and domesticated Moroccan trees*, *Am. J. Plant Sci.*, **2016**, 7(14), 1937-1951. DOI: [10.4236/ajps.2016.714177](https://doi.org/10.4236/ajps.2016.714177) (indexat în: CABI Databases, PubMed, Google Scholar). (Regular paper)

6. **Mantu, D.**; Antoci, V.; Mangalagiu, I. I.: *Design, Synthesis and Antimycobacterial Activity of Some New Pyridazine Derivatives: Bis-pyridazine. Part IV, Infect. Disord. – Drug Targets*, **2013**, 13(5), 344-351. DOI: [10.2174/1871526514666140217144707](https://doi.org/10.2174/1871526514666140217144707) (indexat în: PubMed, MEDLINE/Index Medicus, EMBASE/Excerpta Medica, Scopus, Chemical Abstracts, PubsHub, BIOSIS, BIOBASE, BIOSIS Previews, BIOSIS Reviews Reports and Meetings, Genamics JournalSeek, J-Gate, MediaFinder) (Regular paper)

5. Articole științifice publicate în reviste naționale indexate în BDI: 11 (regular papers: 3; proceedings: 8)

1. **Mantu, D.**; Antoci, V.; Nicolescu, A.; Delenu, C.; Mangalagiu, I.I.: Pyridazinones with acetylhydrazine skeleton: synthesis and stereochemical investigations, *Acta Chemica Iasi*, **23(2) (supplement)**, 138, **2015**. DOI: 10.1515/achi-2015-0008 (proceeding at „Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference, 20-31 Octombrie, **2015**, Iași, Romania). (indexed in DE GRUYTER database)

2. Antoci, V.; **Mantu, D.**; Zbancioc, Ghe.; Moldoveanu, C.; Mangalagiu, I.I.: Complexation of anthracene-imidazolium salt with different acetate ions: UV-vis and fluorescence studies, *Acta Chemica Iasi*, **23(2) (supplement)**, 125, **2015**. DOI: 10.1515/achi-2015-0008 (proceeding at „Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference, 20-31 Octombrie, **2015**, Iași, Romania). (indexed in DE GRUYTER database).

3. Antoci, V.; Apostu, M.; Ciobanu, C.; **Mantu, D.**: NMR and X-ray studies concerning structure of 6,6'-(oxybis(4,1-phenylene))bis-(2-allylpyridazin-3(2H)-one), *Acta Chemica Iasi*, **22(1)**, 1-15, **2014**. (Regular paper) ISSN 2067 – 2438.

4. **Mantu, D.**; Ene, E.; Antoci, V.; Zbancioc, A. M.: Diazolium salts with dihydroxyacetophenone skeleton with anticipated anticancer and antibacterial activity, *Acta Chemica Iasi*, **21(1)**, 9-18, **2013**. (Regular paper) ISSN 2067 – 2438.

5. **Mantu, D.**; Antoci, V.; Moldoveanu, C.; Zbancioc, Ghe.; Mangalagiu I. I.: Synthesis and characterization of new imidazole/benzimidazole salts, *Acta Chemica Iasi*, **21(2) (supplement)**, 38, **2013**. DOI: 10.2478/achi-2013-0012 (proceeding at „Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference, 31 Octombrie - 2 Noiembrie, **2013**)

6. Antoci, V.; **Mantu, D.**; Zbancioc, Ghe.; Moldoveanu, C.; Nicolescu, A.; Ciobanu, C.; Mangalagiu, I. I.: New bis-imidazolium salts: synthesis and NMR characterization, *Acta Chemica Iasi*, **21(2) (supplement)**, 42, **2013**. DOI: 10.2478/achi-2013-0012 (proceeding at University Days of “Al. I. Cuza” University of Iasi, 31 Octombrie - 2 Noiembrie, **2013**)

7. Moldoveanu, C.; Zbancioc, Ghe.; **Mantu, D.**; Știuleac, P. M.; Silea, I. O.; Mangalagiu, I.: Synthesis of new imidazolium salts with imidazol skeleton, *Acta Chemica Iasi*, **21(2) (supplement)**, 40, **2013**. DOI: 10.2478/achi-2013-0012 (proceeding at „Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference, 31 Octombrie - 2 Noiembrie, **2013**)

8. Ene (Plesnicute), E. -L.; Antoci, V.; **Mantu, D.**; Mangalagiu, I. I.: Eco-friendly synthesis of new nitrogen heterocycles compounds using ultrasound irradiation, *Acta Chemica Iasi*, **21(2) (supplement)**, 56, **2013**. DOI: 10.2478/achi-2013-0012 (proceeding at „Alexandru Ioan Cuza” University Days, Faculty of Chemistry Conference, 31 Octombrie - 2 Noiembrie, **2013**)

9. **Mantu, D.**; Bejan, V.; Moldoveanu, C.; Zbancioc, Ghe.; Mangalagiu I. I.: Nouvelles pyridazinones N-substituées et leur activité antituberculeuse, *Acta Chemica Iasi*, **19(2)**, 192-193, **2010**. Proceeding at 1^{er} Colloque Franco-Roumain de Chimie Médicinale. ISSN 2067 – 2438.

10. Bejan, V.; **Mantu, D.**; Zbancioc, G.; Moldovenanu, C.; Mangalagiu, I. I.: Etudes biologique (propriétés anti-cancéreuses) de nouveaux composés pyrrolo-azahétérocycliques, *Acta Chemica Iasi*, **19**(2), 133-134, **2010**. (Proceeding at 1^{er} Colloque Franco-Roumain de Chimie Medicinale). ISSN 2067 – 2438.
11. Săcărescu, G.; Simionescu, M.; Săcărescu, L.; **Mantu, D.**; Mangalagiu I.: Polyhydrosilanes- New materials with NLO properties, *Acta Chemica Iasi*, **17**(2), 121-136, **2009**. (Regular paper) ISSN 2067 – 2438.

6. Patente

1. Mangalagiu, I.I.; **Amăriucăi-Mantu, D.**; Antoci, V.; Zbancioc, Ghe.; Moldoveanu, C.; Cucu, D.; Dănac, R.; Mangalagiu, V.: **Obtaining class of anthracene-imidazole compounds with anti-tuberculosis effect by performing N-alkylation imidazole and benzimidazole with 9-chloromethyl-anthracene, and subjecting intermediates to quaternization/Procedeu pentru obținerea unei noi clase de compuși antracen-imidazolici cu activitate antituberculoasă**, Patent RO (Oficiul de Stat pentru Inventii si Marci-OSIM), no. RO134192-A0/2020, Derwent Primary Accession Number: 2020-605892, **2020**. (Cerere brevet)
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7. Cărți / capitole de carte (naționale/internaționale)

1. **Amăriucăi-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**, book chapter in *Heterocyclic Anticancer Agents*, edited by Bimal Krishna Banik and Bubun Banerjee, Berlin, Boston: De Gruyter, **2022**, pp. 185-248. <https://doi.org/10.1515/9783110735772-006>
2. Danac, R.; **Amăriucăi-Mantu, D.**; Antoci, V.; Zbancioc, Ghe.; Mangalagiu, V.; Mangalagiu, I.I.: **Microwave assisted reactions for synthesis of bioactive azaheterocycles**, book chapter in *Current Advances in Chemistry and Biochemistry*, Vol. 3, Book Publisher International, Dr. Pradip K. Bhowmik (Editor), page 17-50, 4 March **2021**. <https://doi.org/10.9734/bpi/cacb/v3/7477D>
ISBN-13 (15): 978-93-90768-93-6(Print), 978-93-90768-91-2 (eBook)

8. Lucrări prezentate la conferințe internaționale: 68

1. Diaconu, D.; **Amăriucăi-Mantu, D.**; Mangalagiu, V.; Antoci, V.; Ciobanu, C.; Mangalagiu, I.I.: Quinoline-benzimidazole Hybrid Compounds with Anticancer and Antimicrobial Activity, *World Chemistry Forum*, April 12-14, **2023**, Budapest, Hungary. (Poster presentation)
2. Mangalagiu, I.I.; **Amăriucăi-Mantu, D.**; Mangalagiu, V.: Diazine with Antimicrobial Activity, PHARMAMEET 2023, Porto, Portugal, February 9-11, **2023**. (Poster presentation)
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