

## LISTĂ DE LUCRĂRI

### Lista celor maximum 10 lucrări relevante

1. **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 Advances*, 11, 38297-38301, **2021**.
2. **Diaconu, D.**, Mangalagiu, V., Amariucăi-Mantu, D., Antoci, V., Giuroiu, C.L., Mangalagiu, I.I., Hybrid quinoline-sulfonamide complexes ( $M^{2+}$ ) derivatives with antimicrobial activity, *Molecules*, 2(12), 2946, **2020**.
3. 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 antimycobacterial activity. Part XII, *Future Medicinal Chemistry*, 12(3), 207-222, **2020**.
4. **Cucu, D.**, Mangalagiu, V., Amăriucăi-Mantu, D., Antoci, V., Mangalagiu I.I., Imidazolium ylides: cycloaddition versus hydrolysis, *Studia UBB Chemia*, LXIV, 3, 59-66, **2019**. DOI:10.24193/subbchem.2019.3.05
5. **Diaconu D.**, Mangalagiu, V.; Mangalagiu, I.I. New Materials Based on Quinoline Sulfonamide - Metals with Antimicrobial Activity, Abstract in Book of abstracts of METAL 2022 - 31st International Conference on Metallurgy and Materials, PE13- pag. 68, **2022**.
6. Mangalagiu, V., **Diaconu, D.**, Mangalagiu, I.I., Quinoline derivatives:a NMR structure elucidation, Abstract in Book of Abstracts of Adriatic NMR Conference, pag. 54, **2021**.
7. **Diaconu, D.**, Amăriucăi-Mantu, D., Antoci, V., Ciobanu, I.C., Mangalagiu, V., Mangalagiu, I.I., Huisgen 3+2 dipolar cycloaddition reactions of benzimidazolium-ylides with dimethyl acetylenedicarboxylate: A comprehensive and comparative study, Abstract in Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor, Editia a XI-a, pag. 14-15, **2020**.
8. Mangalagiu, I.I., **Diaconu, D.**, Amăriucăi-Mantu, D., Moldoveanu, C., Zbancioc, G., Dănac, 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, ISSN: 2472-1123. DOI: 10.36648/2472-1123.6.3.5, **2020**.
9. **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*, DOI: 10.4172/2150-3494-C4-027, 9, 47, **2018**.
10. Mangalagiu, V., Amăriucăi-Mantu, D., **Cucu, D.**, Antoci, V., Mangalagiu, I.I., Azaheterocycles with antimycobacterial activity, *Journal of Chemical Sciences*, DOI: 10.4172/2150-3494-C4-027, 9, 53, **2018**.

### Teza sau tezele de doctorat

*Noi compuși hibridi ce conțin azaheterocicluri de cinci și șase atomi: sinteză, structură și aplicații*, Școala Doctorală de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași, susținută public în data de 12 Februarie 2021.

### Articole/studii publicate *in extenso*, în reviste din circuitul internațional

1. **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 Advances*, 11, 38297-38301, **2021**.
2. **Diaconu, D.**, Mangalagiu, V., Amariucăi-Mantu, D., Antoci, V., Giuroiu, C.L., Mangalagiu, I.I., Hybrid quinoline-sulfonamide complexes ( $M^{2+}$ ) derivatives with antimicrobial activity, *Molecules*, 2(12), 2946, **2020**.
3. 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 antimycobacterial activity. Part XII, *Future Medicinal Chemistry*, 12(3), 207-222, **2020**.
4. **Cucu, D.**, Mangalagiu, V., Amăriucăi-Mantu, D., Antoci, V., Mangalagiu I.I., Imidazolium ylides: cycloaddition versus hydrolysis, *Studia UBB Chemia*, LXIV, 3, 59-66, **2019**. DOI:10.24193/subbchem.2019.3.05
5. **Cucu (Diaconu), D.**, Mangalagiu, V., Pyridine-imidazolium salts: oxidatively ceavage of N-C bond via ntration, *Molbank*, M1095, doi:10.3390/M1095, **2019**.
6. **Cucu (Diaconu), D.**, Amăriucăi-Mantu, D., Dunca, S.I., Mangalagiu, I.I., Design, syntheis and antimicrobial properties of some new 8-aminoquinoline derivatives, *New Frontiers in Chemistry*, 28, 93-94, **2019**.

### Alte lucrări și contribuții științifice

#### • Participări la manifestări științifice Internaționale

- 1) **31st International Conference on Metallurgy and Materials METAL 2022, Brno, Cehia, 18-19 Mai 2022**  
<https://www.metalconference.eu/cz/>  
**Diaconu D.**, Mangalagiu, V.; Mangalagiu, I.I. New Materials Based on Quinoline Sulfonamide - Metals with Antimicrobial Activity, Abstract in Book of abstracts of METAL 2022 - 31st International Conference on Metallurgy and Materials, PE13- pag. 68, **2022**. (Poster)
- 2) **The 7<sup>th</sup> International Conference on Ecological and Environmental Chemistry-2022, March 3-4, 2022, Chisinau, Republica Moldova**  
<http://eec-2022.mrda.md/>  
Mangalagiu, V., Amăriucăi-Mantu, D., Antoci, V., **Diaconu, D.**, Danac, R., Moldoveanu, C., Zbancioc, G., Mangalagiu, I.I., Ecologically friendly methods used in heterocyclic chemistry, Abstract in Book of Abstracts of 7th International Conference on Ecological and Environmental Chemistry, pag. 52, **2022**. (Comunicare orală)
- 3) **4<sup>th</sup> International Conference on Sustainable Science and Technology (ICSuSaT-2021), 01-02 Octombrie, Turcia, online**  
<https://icsusat.net/icsusat-2021>  
Amăriucăi-Mantu, D., Oniciuc, L., **Diaconu, D.**, Ciobanu, C., Mangalagiu, I.I., Mangalagiu, V., Antoci, V., Novel tetrahydropyrrolo-benzo[f]quinoline compounds: synthesis and characterizations, Abstract in Book of Abstracts of 4th International Conference on Sustainable Science and Technology, poster 34, **2021**. (Poster)
- 4) **Adriatic NMR Conference, Primosten, Croația, 13-15 Septembrie 2021**  
[https://adriatic-nmr-conference.chem.pmf.hr/images2021/Adriatic-NMR-2021\\_Book\\_of\\_Abstracts.pdf](https://adriatic-nmr-conference.chem.pmf.hr/images2021/Adriatic-NMR-2021_Book_of_Abstracts.pdf)  
Mangalagiu, V., **Diaconu, D.**, Mangalagiu, I.I., Quinoline derivatives:a NMR structure elucidation, Abstract in Book of Abstracts of Adriatic NMR Conference, pag. 54, **2021**. (Poster)
- 5) **New Frontiers in Natural Product Chemistry, Chișinău, 4 Iunie, 2021**  
<https://ichem.md/en/scientific-seminar-new-frontiers-natural-product-chemistry-2021>

- Ciorteanu, R., **Diaconu, D.**, Antoci, V., Amăriucăi-Mantu, D., Ciobanu, C., Mangalagiu, V., Mangalagiu, I.I., New hybrid quaternary salts with pyridine/benzimidazole skeleton, Abstract in Book of Abstracts of New Frontiers in Natural Product Chemistry, pag. 23, **2021**. <http://dx.doi.org/10.19261/nfnpc.2021.ab17> (Poster)
- 6) **7<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2020, Antalya, Turcia, online, 21-25 Octombrie, 2020**  
[www.iccesen.org](http://www.iccesen.org)  
**Diaconu, D.**, Roman, T., Amăriucăi-Mantu, D., Antoci, V., Mangalagiu, V., Mangalagiu, I.I., Quinoline-sulfonamides derivatives: synthesis, characterisation and biological activity evaluation, Abstract in Book of Abstracts of 7<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2020, pag. 92, O-143, **2020**. (Comunicare orală)
- 7) **7<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2020, Antalya, Turcia, online, 21-25 Octombrie, 2020**  
[www.iccesen.org](http://www.iccesen.org)  
Antoci, V., Amăriucăi-Mantu, D., **Diaconu, D.**, Zbancioc, G., Moldoveanu, C., Ciobanu, C., Mangalagiu, V., Mangalagiu, I.I., New benzo[f]quinolines derivatives: synthesis, structure and antimicrobial activity evaluation, Abstract in Book of Abstracts of 7<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2020, pag. 93, O-145, **2020**. (Comunicare orală)
- 8) **7<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2020, Antalya, Turcia, online, 21-25 Octombrie, 2020**  
[www.iccesen.org](http://www.iccesen.org)  
Mangalagiu, I.I., **Diaconu, D.**, Zbancioc, G., Moldoveanu, C., Mangalagiu, V., Synthesis, structure and applications of newly hybrid azaheterocycles, Abstract in Book of Abstracts of 7<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2020, pag. 96, O-156, **2020**. (Comunicare orală)
- 9) **7<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2020, Antalya, Turcia, online, 21-25 Octombrie, 2020**  
[www.iccesen.org](http://www.iccesen.org)  
Mangalagiu, V., **Diaconu, D.**, Zbancioc, G., Moldoveanu, C., Danac, R., Mangalagiu, I.I., Synthesis, structure and biological activity of new azine derivatives, Abstract in Book of Abstracts of 7<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2020, pag. 97, O-157, **2020**. (Comunicare orală)
- 10) **3<sup>rd</sup> International Conference on Organic Chemistry, OCC-2020, Berlin, Germania, online, 23 Iulie 2020**  
<https://online.fliphtml5.com/obhuf/ptyn/#p=14>  
Mangalagiu, I.I., **Diaconu, D.**, Amariuca-Mantu, D., Moldoveanu, C., Zbancioc, G., Danac, R., Antoci, V., Mangalagiu, V., New achievements in medicinal chemistry of (di)azole and (di)azine, Abstract in Proceedings on 3<sup>rd</sup> International Conference on Organic Chemistry 2020, pag. 18, **2020**. (Comunicare orală)
- 11) **2<sup>nd</sup> World Congress on Chemistry, Chemistry-2019, Roma, Italia, 28-29 Octombrie, 2019**  
<https://biocoreconferences.com/chemistry-congress-2019/>  
**Cucu (Diaconu), D.**, Amariuca-Mantu, D., Antoci, V., Mangalagiu, I.I., Design and synthesis of a novel quinoline-based potential antileishmanial agents, Abstract in Book of Abstracts of 2nd World Congress on Chemistry 2019, pag. 23, **2019**.
- 12) **6<sup>th</sup> International Conference on Computational and Experimental Science and Engineering, ICCESEN- 2019, Antalya, Turcia, 23-27 Octombrie, 2019**  
[www.iccesen.org](http://www.iccesen.org)  
Mangalagiu, I.I., Mangalagiu, V.; Antoci, V., Amariuca-Mantu, D., **Cucu, D.**, Discovery of antituberculosis derivatives: a challenging issue, Abstract in Book of Abstracts of 6th International Conference on Computational and Experimental Science and Engineering 2019, 70-132, pag. 368, **2019**. (Oral presentation).
- 13) **21<sup>st</sup> Romanian International Conference on Chemistry and Chemical Engineering, RICCE 21, Constanta, Romania, 4-7 Septembrie, 2019**  
<http://ricce21.chimie.upb.ro/>

- Cucu, D.**, Antoci, V., Amariuca-Mantu, D., Ciobanu, C.I., Moldoveanu, C., Mangalagiu, V., Mangalagiu, I.I., Design, synthesis, structure and anti-TB activity of some new pyridine derivatives anchored with benzimidazole moieties, Abstract in Book of Abstract 21st Romanian International Conference on Chemistry and Chemical Engineering 2019, S1-050, **2019**. (Poster)
- 14) **21<sup>st</sup> Romanian International Conference on Chemistry and Chemical Engineering, RICCE 21, Constanta, Romania, 4-7 Septembrie, 2019**  
<http://ricce21.chimie.upb.ro/>  
Antoci, V., Amariuca-Mantu, D., **Cucu, D.**, Mangalagiu, V., Loiseau, P., Cojean, S., Ciobanu, C.I., Zbancioc, G., Mangalagiu I.I., New PyrroloBenzoQuinonePhthalazines and PyrroloBenzoQuinonePyridazines: Synthesis, Structure and Anti-leishmaniasis Activity, Abstract in Book of Abstract 21st Romanian International Conference on Chemistry and Chemical Engineering 2019, S1-051, **2019**. (Comunicare orală)
- 15) **World Congress on Functional Materials and Nanotechnology, WCFMN 2019, Valencia, Spania, 13-14 Mai, 2019**  
<http://functionalmaterials.conferenceera.com/spain/>  
**Cucu, D.**, Antoci, V., Amariuca-Mantu, D., Drochioiu, G., Mangalagiu V., Chemosensors based on imidazole moiety and their coordination complexes with bivalent metals, Abstract in Book of Abstracts of World Congress on Functional Materials and Nanotechnology 2019, poster nr. 13, **2019**. (Poster presentation).
- 16) **5<sup>th</sup> International Conference on Organic and Inorganic Chemistry, Paris, France, 12-13 July, 2018**  
<https://organic-chemistry.chemistryconferences.org/>  
**Cucu, D.**, Amăriucăi-Mantu, D., Antoci, V., Mangalagiu, I.I., Quinoline derivatives anchored with imidazole moiety: synthesis, structure and biological activity, Abstract in Proceedings of 5th International Conference on Organic and Inorganic Chemistry 2018, pp. 47, Journal of Chemical Sciences 2018, Volume: 9, DOI: 10.4172/2150-3494-C4-027, **2018**.
- 17) **5<sup>th</sup> International Conference on Organic and Inorganic Chemistry, Paris, France, 12-13 July, 2018**  
<https://organic-chemistry.chemistryconferences.org/>  
Mangalagiu, V., Amăriucăi-Mantu, D., **Cucu, D.**, Antoci, V., Mangalagiu, I.I., Azaheterocycles with antimycobacterial activity, Abstract in Proceedings of 5th International Conference on Organic and Inorganic Chemistry 2018, pp. 53, Journal of Chemical Sciences 2018, Volume: 9, DOI: 10.4172/2150-3494-C4-027, **2018**.
- 18) **4<sup>th</sup> European Organic Chemistry Congress, London, United Kingdom, 01-03 March, 2018**  
<https://organicchemistry.conferenceseries.com/europe/>  
Mangalagiu, V., Oniciuc, L., **Cucu, D.**, Antoci, V., Mangalagiu, I.I., Cojean, S., Loiseau, P.L., New molecules with azaheterocycles skeleton of potential interest in leishmaniasis, Abstract in Proceedings of 4th European Organic Chemistry Congress 2018, pp. 115, Organic Chemistry: Current Research 2018, Volume:7, DOI: 10.4172/2161-0401-C1-023, **2018**.

## Naționale

- 1) **Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor, Editia a XI-a, SCSSMD 2020, Iași, România, 29-30 Octombrie 2020**  
<https://www.chem.uaic.ro/ro/manifestari/ssmd-2020.html>  
**Diaconu, D.**, Amariuca-Mantu, D., Antoci, V., Ciobanu, I.C., Mangalagiu, V., Mangalagiu, I.I., Huisgen 3+2 dipolar cycloaddition reactions of benzimidazolium-ylides with dimethyl acetylenedicarboxylate: A comprehensive and comparative study, Abstract in Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor, Editia a XI-a, pag. 14-15, **2020**. (Poster)
- 2) **Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, Ediția a II-a, Timișoara, România, 11-14 Noiembrie, 2019**

- Cucu (Diaconu), D.**, Amariuca-Mantu, D., Dunca, S.I., Mangalagiu, I.I., Designul, sinteza și proprietățile antimicrobiene a unor noi derivați de 8-aminochinolină, Abstract in Book of abstracts Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, Ediția a II-a, pag. 39, **2019**. (Comunicare orală)
- 3) **IasiChem 2019, 3<sup>rd</sup> Edition, Faculty of Chemistry Conference, Iași, România, 31-01 Noiembrie 2019**  
<http://www.chem.uaic.ro/ro/manifestari/zu-2019.html>  
**Cucu (Diaconu), D.**, Antoci, V., Mangalagiu, V., Amariuca-Mantu, D., Moldoveanu, C., Mangalagiu, I.I., Novel bis-(imidazole/benzimidazole)-pyridine hybrids: synthesis, structure and antimycobacterial activity studies, Abstract in Book of abstracts IasiChem 2019, PII-01, pag. 41, **2019**. (Poster)
- 4) **IasiChem 2019, 3<sup>rd</sup> Edition, Faculty of Chemistry Conference, Iași, România, 31-01 Noiembrie 2019**  
<http://www.chem.uaic.ro/ro/manifestari/zu-2019.html>  
Moldoveanu, C., Mangalagiu, V., Zbancioc, G., Amariuca-Mantu, D., Antoci, V., **Cucu (Diaconu), D.**, Mangalagiu, I.I., New insights on the 1,3-dipolar cycloaddition of benzimidazolium ylides, Abstract in Book of abstracts IasiChem 2019, PII-18, pag. 58, **2019**. (Poster)
- 5) **IasiChem 2019, 3<sup>rd</sup> Edition, Faculty of Chemistry Conference, Iași, România, 31-01 Noiembrie 2019**  
<http://www.chem.uaic.ro/ro/manifestari/zu-2019.html>  
Antoci, V., Amariuca-Mantu, D., Mangalagiu, V., **Cucu (Diaconu), D.**, Ciobanu, C.I., Zbancioc, G., Mangalagiu, I.I., Newly vinyl-pyrrolo-phthalazine/pyridazine cycloadducts and their polymeric materials, Abstract in Book of abstracts IasiChem 2019, PI-17, pag. 32, **2019**. (Poster)
- 6) **The 23rd International Exhibition of Inventics, INVENTICA 2019, Iași, România, 26-28 Iunie 2019**  
<http://ini.tuiasi.ro/salon/>  
Mangalagiu, I.I., Amariuca-Mantu, D., Antoci, V., Zbancioc, G., Moldoveanu, C., **Cucu, D.**, Danac, R., Mangalagiu, V., Process for obtaining a novel class of antracene-imidazole compounds with antituberculosis activity, Abstract in The 23rd International Exhibition of Inventics 2019, Patent A/00163/13.03.2019, pag. 167, **2019**. (Poster)
- 6) **Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor, Ediția a X-a, SCSSMD 2019, Iași, România, 20-21 Iunie 2019**  
<http://www.chem.uaic.ro/ro/manifestari/ssmd-2019.html>  
**Cucu, D.**, Amăriucăi-Mantu, D., Antoci, V., Ciobanu, C.I., Mangalagiu, I.I., Benzimidazole derivatives: key intermediates in the synthesis of fused azaheterocycles, Abstract in Book of Abstracts Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor 2019, pag. 18-19, **2019**. (Comunicare orală)
- 7) **Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, Iași, România, 31 Octombrie - 3 Noiembrie 2018**  
<http://www.uaic.ro/event/conferinta-nationala-a-scolilor-doctorale-din-consortiul-universitaria-editia-i/>  
**Cucu, D.**, Mangalagiu, I.I., Noi derivați hibridi de chinolină cu schelet benzimidazolic, Abstract in Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, Ediția I, pp. 35, **2018**.
- 8) **IasiChem 2018, Faculty of Chemistry Conference, Iași, România, 25-26 October 2018**  
<http://www.chem.uaic.ro/ro/manifestari/zu-2018.html>  
**Cucu, D.**, Amăriucăi-Mantu, D., Ciobanu, I.C., Mangalagiu, I.I., Synthesis and characterization of some novel hybrids based on pyridine/quinoline and imidazole/benzimidazole moieties, Abstract in Book of abstracts IasiChem 2018, pp. 44, **2018**. **PREMIUL II pentru cel mai bun poster**
- 9) **XXXV-th Romanian Chemistry Conference, Călimănești-Căciulata, Vâlcea, România, 2-5 October, 2018**  
<http://conference.oltchim.ro/>  
**Cucu, D.**, Amăriucăi-Mantu, D., Ciobanu, I.C., Mangalagiu, V., Mangalagiu, I.I., New hybrid quinoline derivatives anchored with imidazole moiety, Abstract in XXXV-th Romanian Chemistry Conference 2018, Chimie organică, bioorganică și alimentară, pp. 7, **2018**.

- 10) Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor, Iași, România, 29-30 Iunie 2018  
<http://www.chem.uaic.ro/ro/manifestari/ssmd-2018.html>  
**Cucu, D.**, Amăriucăi-Mantu, D., Ciobanu, I.C., Mangalagiu, V., Mangalagiu, I.I., New hybrid quinoline derivatives with imidazole skeleton, Abstract in Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor 2018.
- 11) IașiChem 2017, Faculty of Chemistry Conference, Iasi, Romania, 26-28 October 2017  
<http://www.chem.uaic.ro/ro/manifestari/zu-2017.html>  
Grigore, M.-M., **Cucu, D.**, Amăriucăi-Mantu, D., Vasilache, V., Mangalagiu, I.I., Synthesis of new imidazolium/benzimidazolium salts: conventional versus nonconventional methods, Abstract in Acta Chemica, vol. 25(2), pag. 328, 2017.
- 12) 4ème Colloque Franco-Roumain de Chimie Médicinale, Iasi, Romania, 05-07 October 2017  
[www.chem.uaic.ro/cofrrocm-2017/](http://www.chem.uaic.ro/cofrrocm-2017/)  
Amăriucăi-Mantu, D., **Cucu, D.**, Bratanovici, B.I., Moldoveanu C., Zbancioc, G., Mangalagiu, I.I., New imidazole/benzimidazole derivatives and their biological interest, Abstract in Acta Chemica, vol. 25(2), pag. 278, 2017.

**Data**

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