

Lista completă de lucrări

a. Lista lucrări relevante:

1. **Zbancioc, G.**; Ciobanu, C.-I.; Mangalagiu, I.I.; Moldoveanu, C. **Ultrasound-Assisted Synthesis of Fluorescent Azatetracyclic Derivatives: An Energy-Efficient Approach.** *Molecules* 27, 3180, **2022**. DOI: 10.3390/molecules27103180
2. Dumitrelea, D.; Amariuca-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**. DOI: 10.1039/D1RA07484A
3. Moldoveanu, C; Mangalagiu, I.I.; **Zbancioc, G.**: **Fluorescent azasteroids through ultrasound assisted cycloaddition reactions,** *Molecules*, 26(16), 5098, **2021**. DOI: 10.3390/molecules26165098
4. Antoci, V.; Oniciuc, L.; Amariuca-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,** *Pharmaceuticals*, 14, 335, **2021**. DOI: 10.3390/ph14040335
5. Mantu, D.; Antoci, V.; Moldoveanu, C.; **Zbancioc, G.**; Mangalagiu, I.I.: **Hybrid imidazole (benzimidazole) / pyridine (quinoline) derivatives with anticancer and antimycobacterial activity,** *Journal Of Enzyme Inhibition And Medicinal Chemistry*, 31(S2), 96–103, **2016**. DOI:10.1080/14756366.2016.1190711
6. Balan A.M.; Florea O.; Moldoveanu, C.; **Zbancioc G.**; Iurea, D.; Mangalagiu I. I.: **Diazinium salts with dihydroxyacetophenone skeleton: Syntheses and antimicrobial activity,** *Eur. J. Med. Chem.*, 44, 2275-2279, **2009**. doi:10.1016/j.ejmech.2008.06.017
7. 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*, 45, 5164-5168, **2010**. doi:10.1016/j.ejmech.2010.08.029
8. **Zbancioc, G.**; Mangalagiu, I.; Moldoveanu, C.: **Ultrasound assisted synthesis of imidazolium salts: An efficient way to ionic liquids,** *Ultrasonics Sonochemistry*, 23(c), 376-384, **2015**. DOI: 10.1016/j.ultsonch.2014.10.028
9. **Zbancioc, G.**; Zbancioc, A.M.; Mangalagiu, I.: **Ultrasound and microwave assisted synthesis of dihydroxyacetophenone derivatives with or without 1,2-diazine skeleton,** *Ultrasonics Sonochemistry*, 21(2), 802-811, **2014**. DOI: 10.1016/j.ultsonch.2013.09.012
10. **Zbancioc, G.**; Florea, O.; Jones, P.G.; Mangalagiu, I.I.: **An efficient and selective way to new highly functionalized coronands or spiro derivatives using ultrasonic irradiation,** *Ultrason. Sonochem*, 19(3), 399–403, **2012**. DOI:10.1016/j.ultsonch.2011.08.001.

b. Teza de doctorat:

Titlul tezei: **“Studiul unor 1,2 – diazinii ilide și derivați prin metode convenționale și neconvenționale (cu ajutorul microundelor)”** coordonator **prof. dr. IONEL MANGALAGIU**, susținută **Decembrie 2007**, obținut titlul de doctor în domeniul Științe Exacte, Specializarea Chimie **Martie 2008 (OMECT nr. 3439/12.03.2008)**.

c. Brevete de invenție și alte tipuri de proprietate intelectuală:

1. **RO134192-A0/2020**, Oficiul de Stat pentru Inventii si Marci-OSIM Romania - Mangalagiu I.I., Amariuca-Mantu Dorina, Antoci I. Vasilichia, **Zbancioc N. Gheorghita**, Moldoveanu C. Costel, Cucu D. Dumitrelea, Danac Ramona, Mangalagiu Violeta. *“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”*, Derwent Primary Accession Number: 2020-605892.
2. **MD, Nr.4370/C1 2016.04.30**, Agentia de Stat pentru Proprietatea Intelctuala Chisinau, Rep. Moldova - Arîcu Aculina, (MD), Mangalagiu Ionel,(RO), Ciocârlan Alexandru, (MD) Lungu Lidia,(RO), **Zbancioc Gheorghită**, (RO), Vornicu Nicoleta,(RO) *“11,12-Bis-p-tolyl-pyridazonyl-drim-5(6),8(9)-diene-7-one exhibiting antifungal and antibacterial properties”*

d. Cărți și capitole în cărți:

1. Costel Moldoveanu, **Gheorghită Zbancioc**, Roxana Tucaliuc, Ana-Maria Zbancioc, Ondina Boiță, Ionel Mangalagiu, **Bazele chimiei organice – Manual de laborator Vol. 1**, Editura Universității „Al. I. Cuza”- Iași, **2008**. ISBN: 978-973-703-387-1.
2. Dorina Iurea, **Gheorghită Zbancioc**, Geanina Mangalagiu, Ionel Mangalagiu, **Steroide: compusi naturali și analogi de sinteză. Vol. 2**, Editura Universității „Al. I. Cuza”- Iași, **2009**. ISBN: 978-973-703-451-9.
3. Ionel I. Mangalagiu; Ramona Danac; Costel Moldoveanu; **Gheorghită Zbancioc**. **Chimie și toxicologie judiciare. Separatologie judiciară** (217 pag), Ed. „AIT –SRL Laboratory”, **2011**, București. ISBN: 978-606-8363-09-7x2
4. Danac, R.; Amariuca-Mantu, D.; Antoci, V.; **Zbancioc, G.**; Mangalagiu, V.; Mangalagiu, I. I., (2021) **Microwave Assisted Reactions for Synthesis of Bioactive Azaheterocycles**. *Current Advances in Chemistry and Biochemistry Vol. 3*, 17–50, Ed. Book Publisher International, **2021**. <https://doi.org/10.9734/bpi/cacb/v3/7477D>

e. Articole publicate in extenso, în reviste din circuitul științific internațional:

- 1) **Zbancioc, G.**; Mangalagiu, I.I.; Moldoveanu, C. **A Review on the Synthesis of Fluorescent Five- and Six-Membered Ring Azaheterocycles**. *Molecules* 27, 6321, **2022**. DOI: 10.3390/molecules27196321
- 2) **Zbancioc, G.**; Ciobanu, C.-I.; Mangalagiu, I.I.; Moldoveanu, C. **Ultrasound-Assisted Synthesis of Fluorescent Azatetracyclic Derivatives: An Energy-Efficient Approach**. *Molecules* 27, 3180, **2022**. DOI: 10.3390/molecules27103180
- 3) Mocanu, C.S.; Niculaua, M.; **Zbancioc, G.**; Mangalagiu, V.; Drochioiu, G.: **Novel Design of Neuropeptide-Based Drugs with β -Sheet Breaking Potential in Amyloid-Beta Cascade: Molecular and Structural Deciphers**, *Int. J. Mol. Sci.*, 23, 2857, **2022**. DOI: 10.3390/ijms23052857
- 4) Dumitrelea, D.; Amariuca-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**. DOI: 10.1039/D1RA07484A
- 5) Moldoveanu, C; Mangalagiu, I.I.; **Zbancioc, G.**: **Fluorescent azasteroids through ultrasound assisted cycloaddition reactions**, *Molecules*, 26(16), 5098, **2021**. DOI: 10.3390/molecules26165098
- 6) Antoci, V.; Oniciuc, L.; Amariuca-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**, *Pharmaceuticals*, 14, 335, **2021**. DOI: 10.3390/ph14040335
- 7) Antoci, V.; Moldoveanu, C.; Danac, R.; Mangalagiu, V.; **Zbancioc, G.**: **Huisgen 3+2 Dipolar Cycloadditions of Phthalazinium Ylides to Activated Symmetric and Non-Symmetric Alkynes**, *Molecules*, 25, 04416, **2020**. DOI: 10.3390/molecules25194416
- 8) Zaharia, M.; Mihai, M.; Roman, T.; Zbancioc, G.; Pui, A.; Gradinaru, R.V.; Logigan, C.; Drochioiu, G.: **Unusual ferrite induced photohydrolysis of dinitrophenols to nonaromatic and nontoxic derivatives**, *Journal of Photochemistry & Photobiology, A: Chemistry*, 394, 112497, **2020**. DOI: 10.1016/j.jphotochem.2020.112497
- 9) 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)*, 71(3), 287-293, **2020**. DOI: 10.37358/RC.20.3.7998
- 10) 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*, 25(3), 527, **2020**. DOI: 10.3390/molecules25030527.
- 11) 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**, (IF 2018/2019=3.617), DOI: 10.4155/fmc-2019-0063.
- 12) Moldoveanu, C.; Amariuca-Mantu, D.; Mangalagiu, V.; Antoci, V.; Maftai D.; Mangalagiu, I.I.; **Zbancioc, G.**: **Microwave Assisted Reactions of Fluorescent Pyrrolodiazine Building Blocks**, *Molecules*, 24(20), 3760, **2019**. DOI: 10.3390/molecules24203760

- 13) Lupaescu, A; Jureschi, M.; Ciobanu, C.I.; Ion, L.; **Zbancioc, G.**; Petre, B.A.; Drochioiu, G.: **FTIR and MS evidence for heavy metal binding to anti-amyloid NAP-like peptides**, *International Journal of Peptide Research and Therapeutics*, 25(1), 303-309, **2019**. DOI: 10.1007/s10989-018-9672-2
- 14) Moldoveanu, C.; Mangalagiu, I.I.; Isac, D.L.; Airinei, A.; **Zbancioc, G.**: **A New Pathway for the Synthesis of a New Class of Blue Fluorescent Benzofuran Derivatives**, *Molecules*, 23(8), 1968, **2018**. DOI: 10.3390/molecules23081968
- 15) Mangalagiu, I.; Moldoveanu, C.; **Zbancioc, G.**; Amariuca-Mantu, D.; Vasilache, V.: **Theoretical and experimental study on the stability of some 4-(4-chlorophenyl) pyrimidinium ylides**, *Acta et commentationes*, 1(3), 27-43, **2017**. ISSN: 2537-6284.
- 16) Zaharia, M.; Drochioiu, G.; **Zbancioc, G.**; Gradinaru, R.: **Beyond dinitrophenol interaction with tryptophan-based compounds**, *Acta Chemica Iasi*, 24_1, 43-49, **2016**.
- 17) **Zbancioc, G.**; Moldoveanu, C.; Humelnicu, I.; Vasilache, V.; Mangalagiu, I.I.: **Pyridine / Quinoline Derivatives Bearing a Imidazole / Benzimidazole Moiety: a LC-MS Approach of Structure Determination**, *Rev. Chim. (Bucharest)*, 67(8), 1516-1519, **2016**
- 18) Moldoveanu, C.; **Zbancioc, G.**; Mantu, D.; Maftai, D.; Mangalagiu, I.I.: **The cycloaddition of the benzimidazolium ylides with alkynes: new mechanistic insights**, *Plos One*, 11(5), e0156129, **2016**. DOI:10.1371/journal.pone.0156129
- 19) Mantu, D.; Antoci, V.; Moldoveanu, C.; **Zbancioc, G.**; Mangalagiu, I.I.: **Hybrid imidazole (benzimidazole) / pyridine (quinoline) derivatives with anticancer and antimycobacterial activity**, *Journal Of Enzyme Inhibition And Medicinal Chemistry*, 31(S2), 96-103, **2016**. DOI:10.1080/14756366.2016.1190711
- 20) Aricu, A.; Ciocarlan, A.; Lungu, L.; Barba, A.; Shova, S.; **Zbancioc, G.**; Mangalagiu, I.; D'Ambrosio, M.; Vornicu, N.: **Synthesis, antibacterial and antifungal activities of new drimane sesquiterpenoids with azaheterocyclic units**, *Medicinal Chemistry Research*, 25, 2316-2323, **2016**. DOI:10.1007/s00044-016-1665-0
- 21) **Zbancioc, G.**; Moldoveanu, C.; Zbancioc, A.M.; Humelnicu, I.; Mangalagiu, I.: **New Insights Concerning Microwave Mechanism in Cycloaddition Reaction: Thermal Heating versus Specific Effects of Microwave**, *Rev. Roum. Chim.*, 61(4-5), 441-444, **2016**. ISSN: 0035-3930.
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- 25) Zbancioc, A.M.; Miron, A.; Tuchilus, C.; Rotinberg, P.; Mihai, C.T.; Mangalagiu, I.; **Zbancioc, G.**: **Synthesis and in vitro analysis of novel dihydroxyacetophenone derivatives with antimicrobial and antitumor activities**, *Medicinal Chemistry*, 10(5), 476-483, **2014**. DOI: 10.2174/15734064113096660070
- 26) Zaharia, M.; Borhan, A.; Gherca, G.; Pui, A.; Gradinaru, R.; **Zbancioc, G.**; Drochioiu, G.: **Letter: Study on the mechanism of ferrite-associated dinitrophenol photodegradation**, *Eur J Mass Spectrom*, 20, 193-197, **2014**. doi: 10.1255/ejms.1267
- 27) Kuchkova, K.; Aricu, A.; Secara, E.; Barba, A.; Vlad, P.; Ungur, N.; Tuchilus, C.; Shova, S.; **Zbancioc, G.**; Mangalagiu, I.: **Design, synthesis, and antimicrobial activity of some novel homodrimane sesquiterpenoids with diazine skeleton**, *Medicinal Chemistry Research*, 23, 1559-1568, **2014**. DOI: 10.1007/s00044-013-0720-3
- 28) **Zbancioc, G.**; Zbancioc, A.M.; Mangalagiu, I.: **Ultrasound and microwave assisted synthesis of dihydroxyacetophenone derivatives with or without 1,2-diazine skeleton**, *Ultrasonics Sonochemistry*, 21(2), 802-811, **2014**. DOI: 10.1016/j.ultsonch.2013.09.012
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- 43) **Zbancioc, G.**; Huhn, T.; Groth, U; Deleanu, C.; Mangalagiu, I; Pyrrolopyridazine derivatives as blue organic luminophores: synthesis and properties. Part 3, *Tetrahedron*, 66, 4298-4306, 2010. doi:10.1016/j.tet.2010.04.050.
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135. **Zbancioc, G.**; Caprosu, M; Mangalagiu, I. I.: REACȚII DE CICLOADIȚIE 3+2 DIPOLE ALE 1,2-DIAZINIU ILIDELOR CU ALCHENE ACTIVATE NESIMETRIC SUBSTITUITE, **Zilele Universitatii "Al. I. Cuza"-Iași**, 26 - 27 octombrie **2007**, PO5, (Prezentare orală).
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141. **Zbancioc, G.**; Moldoveanu, C.; Caprosu, M.; Mangalagiu, I.I.: MICROWAVE-ASSISTED [3+2] DIPOLAR CYCLOADDITION REACTIONS OF PYRIDAZINIUM YLIDES LEADING TO HIGHLY FLUORESCENT PYRROLOPYRIDAZINE DERIVATIVES, **The JCF-Frühjahrssymposium 2006**, 16-18 March **2006**, Konstanz – Germany, P-109, (poster).
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150. **Zbancioc, G.**; Caprosu, M.; Moldoveanu, C.; Iruc, R.; Mangalagiu, I.: „REACTION DE CYCLOADDITION 1,3-DIPOLAIRES DE 4-HALOPHENYL-PHTALAZINIUM YLURES SUR DES ALCENES ET ALCYNES ACTIVES”; **Troisieme Colloque Franco-Roumain de Chimie Apliquee**, 22-26 septembre **2004**, Slănic Moldova, Bacău Roumanie, A 42, (poster).
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Granturi de cercetare:

-3 granturi ca director:

- Grant bilateral Romania – Moldova, grant nr. **no. 682/2013**
Titlu: **Sinteza compușilor noi biologic activi cu unități structurale terpenice și heterociclice**,
Finanțator: Guvernul Moldovei și Guvernul României (ANCS, PN-II, Modul III)
Directori: conf.dr. **Gheorghiță ZBANCIOC/CP I. dr. Alexandru Ciocârlan**, Academy of Science of Rep. Moldova

Durata: 2013 – 2014; valoare: 29.000 RON.
- Grant **TE**; cod UEFISCDI **PN-III-P1-1.1-TE-2016-1205**
Finanțator: Ministerul Educației și Cercetării
Titlu: **New Polyfunctional Azasteroids Mimics: fluorescent and biologically active compounds**

Director: Conf. dr. **Gheorghită ZBANCIOC**

Durata: 2018-2020; Valoare: 450000 RON

3. Grant **TD**; Nr. contract: **27693/2005**; Cod CNCSIS: **348**
Finanțator: Ministerul Educației și Cercetării
Titlu: **Microwave assisted reaction in pyridazinium and phthalazinium ylides**
Director: Asist. drd. **Gheorghită ZBANCIOC**
Durata: 2005-2006; Valoare: 16000RON.

-11 granturi ca membru:

Granturi nationale ca membru-7

1. Grant PN-II-Idei, No. 268/5.10.2011,

Titlu: **New polifunctional nitrogen derivatives (heterocycles, podants and macrocycles) as smart versatile building blocks for multiple tasks**

Finanțator: **UEFISCDI**, Ministerul Educației și Cercetării

Director: **prof.dr. Ionel MANGALAGIU**

Durata: 2012-2014; Valoare: 1.500.000 RON

2. Grant TE; cod UEFISCDI PN-II-RU-TE-2011-3-0010

Titlu: **New imidazole derivatives - from ionic liquids to N-heterocyclic carbenes - with potential practical applications**

Finanțator: **UEFISCDI**, Ministerul Educației și Cercetării

Director: **Conf. dr. Costel MOLDOVEANU**

Durata: 2011- 2014; Valoare: 750.000 RON

3. Grant PN II-Ideas, no. 88/2008

Titlu: **Chemosensors with Macrocyclic Skeleton**

Finanțator: **CNCSIS**, Ministerul Educației și Cercetării

Director: **Prof. dr. Ionel MANGALAGIU**

Durata: 2009-2011; Valoare: 1.500.000 RON

4. Grant CEEEX-MATNANTECH, (Research of Excellency), no. 36/2005,

Titlu: **Macrocyclic nanostructures of coronand type by conventional and unconventional methods (microwaves and ultrasounds).**

Finanțator: **CNCSIS-MATNANTECH**, Ministerul Educației și Cercetării

Director: **Prof. dr. Ionel MANGALAGIU**

Durata: 2005-2008; Valoare: 450.000,00 €

5. Grant CEEEX-BIOTECH (Research of Excellency), grant no. 49/2005,

Titlu: **The obtain, and the physical-chemical and biochemical characterization of some glicozid-steroidic biopreparations with vegetal origins.**

Finanțator: **CNCSIS-BIOTECH**, Ministerul Educației și Cercetării

Director: **Prof. dr. Ionel MANGALAGIU**

Durata: 2005-2008; Valoare: 450.000,00 €

6. Grant type A, anul 2006 cod 1155, tema 16; 2007: cod 1155, tema 28 si 2008: cod 1155, tema 19

Titlu: **The reactions under microwaves heating in heterocyclic systems.**

Finanțator: **CNCSIS**, Ministerul Educației și Cercetării

Director: **Prof. dr. Ionel MANGALAGIU**

Durata: 2006-2008; Valoare: 95.000,00 lei

7. Grant type A, anul 2003 cod 1322, tema 13; 2004 cod 1322, tema 20 si 2005 cod 1322, tema 29.

Titlu: **The reactions under microwaves heating in heterocyclic systems.**

Finance by **CNCSIS, Romanian Ministry of Education and Research**

Director: **Prof. dr. Ionel MANGALAGIU**

Durata: 2003-2005; Valoare: 383.000.000,00 lei

Granturi internationale ca membru – 4

1. Grant Bilateral România-Rep. Moldova, no. 31BM//15.09.2016

Titlu: **Directed synthesis and study of some chiral complexes containing terpene-heterocyclic ligands**

Finanțator: **Guvernul Moldovei și Guvernul României (ANCS, PN-II, Modul III)**

Director: **conf.dr. Costel Moldoveanu, Romania/ CP I.dr. hab. Aculina Aricu, Academy of Science of Rep. Moldova**

Durata: 2016-2017; Valoare: 30.000 RON

2. Grant Bilateral România-Rep. Moldova, no. 418/02.06.2010,

Titlu: **Biologically active compounds with terpenoid and azaheterocycle skeleton through conventional and nonconventional methods**

Finanțator: **UEFISCDI, Ministerul Educației și Cercetării**

Director: **prof.dr. Ionel Mangalagiu, Romania/ CP I.dr. Aculina Aricu, Academy of Science of Rep. Moldova**

Durata: 2010-2012; Valoare: 29.000 RON

3. Grant FP7- People-2009-IRSES, no. 246902/2009

Titlu: **Photocatalytic Clusters Complexes for Artificial Photosynthesis Applications.**

Finanțator: **European Union- FP7 program IRSES**

Director: **prof.dr. Ionel Mangalagiu, Romania/ prof. Dr. Andrew Benniston, UK/ prof.dr. Constantin Turta, Moldova**

Durata: 2009-2011; Valoare: 200.000,00 Euro (30.000 Euro Romanian share)

4. Grant NATO- Collaborative Linkage Grant, no. PDD(CP)-(CBP.EAP.CLG 982499)/20.11.2006,

Titlu: **Synthesis of Highly Fluorescent Materials Through Eco-friendly Methods.**

Finanțator: **NATO PROGRAMME SECURITY THROUGH SCIENCE**

Director: **prof.dr. Ionel Mangalagiu, Romania/ prof. Dr. Ulrich Groth, Germania**

Durata: 2006-2007; Valoare: 5.000,00 Euro

Data:

17.11.2022

Semnătura,

conf. dr. Gheorghiță ZBANCIOC