



**Prof. dr. GHEORGHITA ZBANCIOC**

Universitatea "Alexandru Ioan Cuza" din Iași;

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## CURRICULUM VITAE

### Date bibliografice.

Data nașterii: 3 decembrie 1978

Cetățenia: Română

Starea civila: căsătorit, doi copii

Poziția și gradul didactic: Profesor universitar

Adresa: Prof. dr. Gheorghita Zbancioc, Universitatea "Al. I. Cuza" din Iași, Bulevardul Carol I Nr. 11, Iași – 700506, ROMANIA.

#### • Studii.

- 1985-1993: Școala primară și gimnaziul, Școala Generală „Nicolae Tonița”, Iași;

- 1993-1997: Liceului “Grup Școlar Energetic” din Iași, absolvit în anul 1997;

- 1997-2001: Urmat cursurile Facultății de Chimie, Secția Chimie, Universitatea "Alexandru Ioan Cuza" din Iași. Am absolvit facultatea în anul 2001, fiind licențiat în Chimie.

- 2001-2003: Urmat cursurile Master (studii aprofundate) în cadrul Universității. "Alexandru Ioan Cuza" din Iași, secția "Enzimologie și Biotehnologie".

#### • Doctorat

- Titlul tezei: “**Studiul unor 1,2 – diaziniu 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)**

#### • Grade și funcții didactice

- din **Octombrie 2024** - **profesor** la Departamentul de Chimie, Facultatea de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași;

- din **Aprilie 2023** **Atestat de abilitare** in domeniul studii universitare de doctorat **Chimie** conform OME Nr. 4043 / 20.04.2023

- din **Octombrie 2012** - **conferențiar** la Departamentul de Chimie, Facultatea de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași;

- din **Februarie 2009** - **lector** la Catedra de Chimie Organică, Facultatea de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași;

- din **Februarie 2007** - *asistent* la Catedra de Chimie Organică, Facultatea de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași;

- din **Februarie 2005** - *preparator* la Catedra de Chimie Organică, Facultatea de Chimie, Universitatea "Alexandru Ioan Cuza" din Iași;

- din **Octombrie 2003** - *preparator* la Catedra de Horticultură, Facultatea de Horticultură, Universitatea de Științe Agricole și Medicină Veterinară „Ion Ionescu de la Brad” din Iași;

- **Premii și distincții, specializări în străinătate, burse, etc.**

- În **noiembrie 2014** am câștigat o bursa DAAD la Universitatea din Konstanz, Germania și am lucrat în grupul de cercetare al Dr. Thomas Huhn.

- În **martie 2006** am efectuat un stadiu de specializare în domeniul GC-MS, la Departamentul de Chimie din cadrul Universității din Konstanz, Germania, în grupul de cercetare al profesorului Ulrich Groth.

-Mai 19-21, **2016** “*Medalie de aur*” cu brevetul: “Hybrid imidazole / pyridine (quinoline) derivatives with anticancer and antimycobacterial activity”. Euroinvent 2016, Iași, Romania;

-Mai 14-16, **2015** “*Medalie de aur*” cu brevetul: “11,12-Bis-p-tolyl-piridazonil-drim-5(6),8(9)-diene-7-one with antifungal and antibacterial properties”. Euroinvent 2015, Iași, Romania;

-Decembrie 4-6, **2015** “*Medalie de argint*” cu brevetul: “11,12-Bis-p-tolyl-piridazonil-drim-5(6),8(9)-diene-7-one with antifungal and antibacterial properties”. Kaohsiung International Invention and Design Expo 2015, Kaohsiung, Taiwan;

-Mai 22-24, **2014** “*Medalie de aur*” cu brevetul: “Ultrasound and microwave assisted synthesis of dihydroxyacetophenone derivatives with or without 1,2-diazine skeleton”. Euroinvent 2014, Iași, Romania;

May 12-14, **2011** “*Medalie de argint*” cu brevetul: “Microwave assisted synthesis of blue luminophors” și “*Diploma de excelenta*” cu brevetul: “New imidazole based ionic liquids”. Euroinvent 2011, Iași, Romania;

-Decembrie 9-12, **2006** Sofia am câștigat un “Travel grant for the International Symposium on Organic Chemistry” oferit de Alexander von Humboldt Foundation and The Stability Pact for South Eastern Europe în valoare de 156 euro

- **Limbi străine cunoscute:**

Engleza: foarte bine;

Franceza: bine;

Germana: începător.

- **Activitate științifică**

Cercetările întreprinse vizează deschiderea unor direcții noi de cercetare în chimia heterociclicilor cu azot și a azot-ilidelor (cum sunt cel al reacțiilor sub acțiunea microundelor și ultrasunetelor), sinteza de compuși ținta cu potențiale aplicații practice (medicamente, nanomateriale înalt fluorescente și semiconductori, cristale lichide și factori de creștere), cercetări în domeniul chimiei supramoleculare: sinteza unor oxazacoronanzi și oxacoronanzi cu proprietăți speciale. Reacțiile în fază solidă și cele sub acțiunea microundelor și ultrasunetelor se încadrează în categoria așa ziselor reacții „ecologic prietenoase”, un alt domeniu prioritar pe plan mondial. Relativ la aceste ultime aspecte, de poluare a mediului, se încadrează și preocupările noastre în domeniul chimiei toxicologice, fiind vizate în special aspectele de depoluare. În

cadrul acestui domeniu am publicat și prezentat la diverse sesiuni științifice mai multe lucrări, după cum urmează:

- **68** lucrări științifice: din care **58** în reviste cotate ISI;
- **2** brevete de invenție
- peste **1000** citări în lucrări științifice de prestigiu (fără autocitări), h-index - **19**;
- peste **160** conferințe naționale și internaționale;
- **5** cărți;
- **14** granturi dintre care **3** granturi câștigate prin competiție ca director (cu Ministerul Educației și Cercetării) și alte **11** granturi ca membru (cu Ministerul Educației și Cercetării)

### **RECUNOAȘTERE PROFESIONALĂ**

- **Guest Editor** al Volumului Special “Recent Progress in Green Organic Synthesis” din *Molecules*. [https://www.mdpi.com/journal/molecules/special\\_issues/green\\_organic](https://www.mdpi.com/journal/molecules/special_issues/green_organic)
- **Guest Editor** al Volumului Special “Advances in Ultrasound Chemistry” din *Molecules*. [https://www.mdpi.com/journal/molecules/special\\_issues/Molecules\\_Ultrasound](https://www.mdpi.com/journal/molecules/special_issues/Molecules_Ultrasound)
- **Referent** la mai multe reviste de specialitate: *Ultrasonic Sonochemistry*, *Revue Roumaine de Chimie*, *Medicinal Chemistry*, *Chinese Journal of Chemistry*, *Spectroscopy Letters*, *Acta Chemica Iasi*, *Molecules*, *Processes*, *Chemistry Journal of Moldova*.
- Noiembrie 2016 și Septembrie 2017 **profesor invitat** la Universitatea de Stat din Tiraspol, Facultatea de Biologie și Chimie

### **EXPERIENȚĂ DIDACTICĂ** – cursuri și laboratoare la următoarele discipline:

- Hidrocarburi (anul I de studii)
- Chimia heterociclorilor
- Hormoni, steroide și compuși polienici cu activitate biologică (studenți masteranzi)
- Medicamente de bio- și semisinteză (studenți masteranzi)
- Elemente de chimie organică (studenți masteranzi)
- Prođuși naturali bioactivi (studenți masteranzi)

12.02.2026

Semnătura,  
Prof. univ. dr. habil. Gheorghiu Zbancioc

## Lista completă de lucrări

### a. Lista lucrări relevante:

1. Mangalagiu, V.; Danac, R.; Diaconu, D.; **Zbancioc, G.**; Mangalagiu, I.I.: **Hybrids diazine: Recent Advancements in Modern Antimicrobial Therapy**. *Current Medicinal Chemistry* 31(19), 2687 – 2705, **2024**. DOI: 10.2174/0929867330666230418104409
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 Intellectuala 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>
5. **Zbancioc, G.**, **Produsi naturali bioactivi**. Edirura Pim, **2024**. ISBN: 978-606-13-8194-4.

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

- 1) Zbancioc, A.M.; Miron, A.; Tuchilus, C.; Mangalagiu, I.I.; Zbancioc, G.; Tatarina, G. **Isolation of pure compounds and exploration of antioxidant and antimicrobial spectrum of Paeonia daurica ssp. mlkosewitschii (Lomakin) D. Y.Hong leaves and roots extracts**. *Journal of Molecular Structure* 1347, 143287, **2025**. DOI: 10.1016/j.molstruc.2025.143287
- 2) Moldoveanu, C.; Mangalagiu, I.I.; **Zbancioc, G.**; Danac, R.; Tatarina, G.; Zbancioc, A.M. **Anticancer Potential of Azatetracyclic Derivatives: In Vitro Screening and Selective Cytotoxicity of Azide and Monobrominated Compounds**. *Molecules* 30, 702, **2025**. DOI: 10.3390/molecules30030702
- 3) Mangalagiu, V.; Danac, R.; Diaconu, D.; **Zbancioc, G.**; Mangalagiu, I.I.: **Hybrids diazine: Recent Advancements in Modern Antimicrobial Therapy**. *Current Medicinal Chemistry* 31(19), 2687 – 2705, **2024**. DOI: 10.2174/0929867330666230418104409
- 4) **Zbancioc, G.**; Mangalagiu, I.I.; Moldoveanu, C.: **The Effective Synthesis of New Benzoquinoline Derivatives as Small Molecules with Anticancer Activity**. *Pharmaceuticals* 17(1), 52, **2024**. DOI: 10.3390/ph17010052
- 5) **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
- 6) **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
- 7) Mocanu, C.S.; Niculaua, M.; **Zbancioc, G.**; Mangalagiu, V.; Drochioiu, G.: **Novel Design of Neuropeptide-Based Drugs with  $\beta$ -Sheet Breaking Potential in Amyloid-Beta Cascade: Molecular and Structural Deciphers**, *Int. J. Mol. Sci.*, 23, 2857, **2022**. DOI: 10.3390/ijms23052857
- 8) 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
- 9) Moldoveanu, C; Mangalagiu, I.I.; **Zbancioc, G.**: **Fluorescent azasteroids through ultrasound assisted cycloaddition reactions**, *Molecules*, 26(16), 5098, **2021**. DOI: 10.3390/molecules26165098
- 10) 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
- 11) 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
- 12) 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

- 13) 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
- 14) 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.
- 15) 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.
- 16) 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
- 17) 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
- 18) 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
- 19) 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.
- 20) Zaharia, M.; Drochioiu, G.; **Zbancioc, G.**; Gradinaru, R.: **Beyond dinitrophenol interaction with tryptophan-based compounds**, *Acta Chemica Iasi*, 24\_1, 43-49, **2016**.
- 21) **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**
- 22) 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
- 23) 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
- 24) 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
- 25) **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.
- 26) Zbancioc, A.M.; Tataringa, G.; Jitareanu, A.; Rotinberg, P.; Mihai, C.T.; **Zbancioc, G.**; Miron, A.; Luca, C.M.: **Structure and Cytotoxic Activity of Some Dihydroxyacetophenone Derivatives**, *Rev. Chim. (Bucharest)*, 66(10), 1603-1606, **2015**.
- 27) **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
- 28) **Zbancioc, G.**; Moldoveanu, C.; Zbancioc, A.M.; Mangalagiu, I.: **Microwave Assisted Synthesis of New Pyrrolopyridazine Derivatives with Acetophenone Skeleton. Part IV**, *Current Microwave Chemistry*, 1(1), 41-46, **2014**. DOI: 10.2174/2213335601666140210211520
- 29) 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

- 30) 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
- 31) 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
- 32) **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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2. Mangalagiu, V.; **Zbancioc, G.**; Moldoveanu, C.; Mangalagiu, I.I. Highly fluorescent materials with pyrrolo-diazine skeleton. *XXVth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management - SGEM 2025*, June 28 – July 7, 2025. Albena, Bulgaria. DOI 10.5593/sgem2025/6.1/s23.04 ISSN 1314-2704 ISBN 978-619-7603-87-3
3. Mangalagiu, I.I.; Amariuca-Mantu, D.; Antoci, V.; Zbancioc, G.; Moldoveanu, C.; Mangalagiu, V. MULTIPLE TARGET LIGANDS WITH AZAHETEROCYCLES SKELETON, International Conference Progress in Organic and Macromolecular Compounds 30th Edition, Iasi | Romania | September 23 - 26, **2025**. (Conference, L6). [https://icmpp.ro/macroiiasi2025/files/volum%20Macroiiasi%202025\\_v3.pdf](https://icmpp.ro/macroiiasi2025/files/volum%20Macroiiasi%202025_v3.pdf)
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**g. Alte lucrări și contribuții științifice:**

**Participări conferințe naționale și internaționale:**

- Mangalagiu, I.I.; Mangalagiu, V.; **Zbancioc, G.**; Synthesis of biologically activity hybrid diazine – polyphenols derivatives using ecologically friendly methods. **XXVth International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management - SGEM 2025**, June 28 – July 7, 2025. Albena, Bulgaria. DOI 10.5593/sgem2025/6.1/s23.12 ISSN 1314-2704 ISBN 978-619-7603-87-3
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158. Mangalagiu, I.; Florescu, M.; **Zbancioc, Gh.**; Moldoveanu, C.; Caprosu, M.; SYNTHESIS OF NEW 1,2-DIAZINE NANOMATERIALS, **International Conference on Nanoscience and Technology**, 30 July – 4 August **2006**, Basel, Elvetia, P-1292 (Poster).
159. **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).
160. Moldoveanu, C.; **Zbancioc, G.**; Mangalagiu, G.; Mangalagiu, I.I.: THE ACTION OF CYCLIC UNSATURATED ANHYDRIDE TOWARD 4-R-PYRIMIDINES, **The JCF-Frühjahrssymposium 2006**, 16-18 March **2006**, Konstanz – Germany, P-64, (poster).
161. **Zbancioc, G.**; Caprosu, M.; Moldoveanu, C.; Mangalagiu, I.: UTILIZAREA MICROUNDELOR ÎN SINTEZA UNOR DERIVATI PIROLOPIRIDAZINICI PUTERNIC FLUORESCENȚI, **Zilele Universitatii "Al. I. Cuza"-Iași**, 27 - 28 octombrie **2006**, PO2, (Prezentare orală).
162. Moldoveanu, C.; **Zbancioc, G.**; Mangalagiu, G.; Mangalagiu, I.: „ILIDE CU CARBANION CICLIC DERIVATE DE LA 4-R-PIRIMIDINA”; **Zilele Universitatii "Al. I. Cuza"-Iasi**, 27 - 28 octombrie **2006**, PO3, (Prezentare orală).
163. **Zbancioc, G.**; Caprosu, M.; Mangalagiu, I.: SINTEZA ASISTATĂ LA MICROUNDE A UNOR DERIVAȚI FLUORESCENȚI ÎN FAZĂ LICHIDĂ ȘI ÎN FAZĂ SOLIDA, **A XXIX-a Conferință Națională de Chimie 2006**, Călimănești-Căciulata, Vâlcea, 4-6 Octombrie **2006**, PSI20, (poster).
164. **Zbancioc, G.**; Caprosu, M.; Moldoveanu, C.; Petrovanu, M.; Mangalagiu, I.: “MICROWAVE ASSISTED 1,3-DIPOLAR CYCLOADDITION REACTIONS OF 1,2-DIAZINIUM YLIDES IN SOLID-PHASE”, **The XIV-th Romanian International Conference on Chemistry and Chemical Engineering**, 22-24 September **2005**, Bucharest – ROMANIA, S07-P-07, (poster).
165. Moldoveanu, C.; **Zbancioc, G.**; Mangalagiu, G.; Caprosu, M.; Mangalagiu, I.: „4-R-PYRIMIDINIUM YLIDES WITH CYCLIC CARBANION”, **The XIV-th Romanian International Conference on Chemistry and Chemical Engineering**, 22-24 September **2005**, Bucharest – ROMANIA, S07-P-06, (poster).
166. **Zbancioc, G.**; Caprosu, M.; Moldoveanu, C.; Petrovanu, M.; Mangalagiu I.: „MICROWAVE ASSISTED INACTIVATION REACTION OF PHTHALAZINIUM YLIDES”; **Zilele Universitatii "Al. I. Cuza"-Iasi**, 28 - 29 octombrie **2005**, P28, (Poster).
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168. **Zbancioc, G.**; Caproșu, 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).
169. Moldoveanu, C.; **Zbancioc, G.**; Caprosu, M.; Mangalagiu, G.; Mangalagiu, I.: „YLURES DE 4-(4-CHLOROPHENYL)PYRIMIDINIUM.STRUCTURE, STABILITE, REACTIVITE”, **Troisieme Colloque Franco-Roumain de Chimie Apliquee**, 22-26 septembre **2004**, Slănic Moldova, Bacău Roumanie, F 16, (poster).
170. **Zbancioc, G.**; Caprosu, M.; Moldoveanu, C.; Petrovanu, M.; Mangalagiu, I.: „MICROWAVE ASSISTED 1,3 - DIPOLAR CYCLOADDITION REACTIONS OF 4-HALOBENZOYLPHTHALAZINIUM YLIDES”; **Zilele Universitatii “Al. I. Cuza”-Iasi**, 29 - 30 octombrie **2004**, P92, (Poster).
171. Moldoveanu, C.; Harhota, M.; **Zbancioc, G.**; Caprosu, M.; Petrovanu, M.; Mangalagiu, I.: „4-R-PYRIMIDINIUM YLIDES. STRUCTURE. STABILITY. PROPERTIES. BIOLOGICAL ACTIVITY”; **Zilele Universitatii “Al. I. Cuza”-Iasi**, 29 - 30 octombrie **2004**, P82 (Poster).
172. Mangalagiu, G.; Moldoveanu, C.; **Zbancioc, G.**; Petrovanu, M.; Mangalagiu, I.: „PYRIMIDINIUM YLIDES. STRUCTURE, STABILITY, PROPERTIES”; **XXVIII-th romanian chemistry conferance, Calimanesti-Caciulata**, Valcea, Romania, 6-8 october **2004**, P.S.I. 33 (poster).
173. **Zbancioc, G.**; Moldoveanu, C.; Caprosu, M.; Petrovanu, M.; Mangalagiu, I.: „MICROWAVE ASSISTED REACTIONS IN THE DIAZINE HETEROCYCLES SERIES”; **XXVIII-th romanian chemistry conferance, Calimanesti-Caciulata**, Valcea, Romania, 6-8 october **2004**, C.S.I. 5, (conferance).
174. Ivas, E.; Trincă, L.; Ivas, C., **Zbancioc, G.**: “IMPLICAREA UNOR VITAMINE ÎN DEFENSIVA ANTIOXIDANTĂ A ORGANISMULUI ANIMAL”, **Facultatea de Zootehnie. Sesiunea anuală de comunicări științifice „Zootehnia românească în perspectiva integrării în Uniunea Europeană”**, Iași, 14 – 15 mai **2004**, Prezentare orală.
175. Trincă, L.; Ivas, E.; Trincă, N.; **Zbancioc G.**: “ APA ÎN INDUSTRIA ALIMENTARĂ”, **Facultatea de Zootehnie. Sesiunea anuală de comunicări științifice „Zootehnia românească în perspectiva integrării în Uniunea Europeană”**, Iași, 14 – 15 mai **2004**.
176. Ivas, E.; Trincă, L.; Volf, M.; **Zbancioc G.**: “DETERMINAREA CONȚINUTULUI DE NITRAȚI DIN SFECLA ROȘIE (BETA VULGARIS) SUPUSĂ CONSERVĂRII PRIN DIVERSE PROCEDEE TEHNOLOGICE”, **Facultatea de Horticultură. Simpozionul Științific Anual „Horticultura – știință, calitate, diversitate și armonie”**, Iași, 28 – 29 mai **2004**.
177. Caprosu, M.; **Zbancioc, G.**; Moldoveanu, C.; Mangalagiu, I.; Petrovanu, M.: “REACTII DE CICLOADITIE 1,3-DIPOLARE ALE 4-HALOFENILFTALAZINIU ILIDELOR CU ALCHENE SI ALCHINE ACTIVATE”; **Zilele Universitatii “Al. I. Cuza”-Iasi**, 31 octombrie-1 noiembrie **2003**, C-10, Prezentare orală.
178. Mangalagiu, I.; Caprosu, M.; Mangalagiu, G.; **Zbancioc, G.**; Moldoveanu, C.; Petrovanu, M.: “DIAZINIUM METHYLIDES: REACTION WITH ALKYNES”, **3<sup>rd</sup> International Conference of the Chemical Societies of the South-Eastern European Countries**, Bucuresti, Romania, September 22-25 **2002**. PO002 (in English). Poster.

### 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. **Gheorghită 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
- Grant **TD**; Nr. contract: **27693/2005**; Cod CNCISIS: **348**  
Finanțator: Ministerul Educației și Cercetării

Titlu: **Microwave assisted reaction in pyridazinium and phthalazinium ylides**

Director: Asist. drd. **Gheorghita 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 CEEX-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 CEEX-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)

Directori: **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

Directori: **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

Directori: **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

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

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

**Recunoastere științifică**

H-index (Hirsch index) WoS: 19

H-index (Hirsch index) Scopus: 18

H-index (Hirsch index) Google Scholar: 19

An	Descrierea rolului
2025	<b>Guest Editor</b> of the Special Issue "Microwave- and Ultrasound-Assisted Reactions in Organic Chemistry" from <i>Molecules</i> . <a href="https://www.mdpi.com/journal/molecules/special_issues/TBU321C4JM">https://www.mdpi.com/journal/molecules/special_issues/TBU321C4JM</a>
2024-2025	<b>Guest Editor</b> of the Special Issue "Design, Synthesis and Evaluation of Novel Anticancer Agents, 2nd Edition" from <i>Molecules</i> . <a href="https://www.mdpi.com/journal/molecules/special_issues/6PE8I99738">https://www.mdpi.com/journal/molecules/special_issues/6PE8I99738</a>
2023-2024	<b>Guest Editor</b> of the Special Issue "Synthesis and Biologically Relevant Heterocyclic Compounds" from <i>Molecules</i> . <a href="https://www.mdpi.com/journal/molecules/special_issues/6EFP12V1CA">https://www.mdpi.com/journal/molecules/special_issues/6EFP12V1CA</a>
2023-2024	<b>Guest Editor</b> of the Special Issue "Recent Progress in Green Organic Synthesis" from <i>Molecules</i> . <a href="https://www.mdpi.com/journal/molecules/special_issues/green_organic">https://www.mdpi.com/journal/molecules/special_issues/green_organic</a>
2022	<b>Guest Editor</b> of the Special Issue "Advances in Ultrasound Chemistry (Volume II)" from <i>Molecules</i> . <a href="https://www.mdpi.com/journal/molecules/special_issues/JZ5K1TQ2RR">https://www.mdpi.com/journal/molecules/special_issues/JZ5K1TQ2RR</a>
2021	<b>Guest Editor</b> of the Special Issue "Advances in Ultrasound Chemistry" from <i>Molecules</i> . <a href="https://www.mdpi.com/journal/molecules/special_issues/Molecules_Ultrasound">https://www.mdpi.com/journal/molecules/special_issues/Molecules_Ultrasound</a>

2009 - present	<b>Reviewer</b> on several chemistry Journals: <i>Ultrasonic Sonochemistry, Revue Roumaine de Chimie, Medicinal Chemistry, Chinese Journal of Chemistry, Spectroscopy Letters, Acta Chemica Iasi, Molecules, Processes, Chemistry Journal of Moldova.</i>
November 2016	<b>Invited professor</b> at Tiraspol State University, Faculty of Biology and Chemistry
September 2017	<b>Invited professor</b> at Tiraspol State University, Faculty of Biology and Chemistry

Data:

12.02.2026

Semnătura,

prof. dr. habil. Gheorghişă ZBANCIOC