

CURRICULUM VITAE

Name: Ramona **Surname:** DANAC

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Education:

07/04/2025 Defense of the *Habilitation Thesis* entitled “ Functionalized Organic Scaffolds: from Small Molecules to Macrocycles”. Award of the Habilitation Certificate and the status of PhD supervisor, granted by Ministerial Order No. 6770/25.11.2025, issued by the General Directorate for Higher Education, Ministry of National Education and Scientific Research.

09.2012–12.2012 DAAD Research Stage for Academics and Researchers, Karlsruhe Institute of Technology, Karlsruhe, Germany,

Project title: Rigid Star-Shaped Molecules as Supported Homogeneous Catalysts

2005 – 2007 Marie Curie Fellow, (2 years MEIF-CT-2005-022646, 2005-2007) Chemistry Research Laboratory, University of Oxford, Oxford, UK,

Project title: New Inhibitors of Bacterial and Fungal Cell Wall Biosynthesis

1999 - 2003 Ph. D. Organic Chemistry
Organic Chemistry and Biochemistry Department
Faculty of Chemistry
“Al. I. Cuza” University, Iasi, Romania

Supervisor: Prof. Ioan Druta
Thesis title: Researches in the Field of 1,10-Phenanthroline

1997 – 1999 M.Sc., Heterocyclic Chemistry and Biochemistry
Organic Chemistry and Biochemistry Department
Faculty of Chemistry
“Alexandru Ioan Cuza” University, Iasi, Romania

Supervisor: Prof. Valeriu Sunel
Thesis title: Nitrogen Yperites

1993 – 1997 B.Sc., Department of Chemistry-Physics
Faculty of Chemistry
“Alexandru Ioan Cuza” University of Iasi, Romania

1989 -1993 Medical High School, Iasi, Romania

Professional Experience

2020 – to date	Professor, Chemistry Department, University “Alexandru Ioan Cuza”, Iasi, Romania;
2013 – 2020	Associate professor, Chemistry Department, University “Alexandru Ioan Cuza”, Iasi, Romania;
2006 – 2013	Lecturer, Chemistry Department, University “Alexandru Ioan Cuza”, Iasi, Romania;
2003 – 2006	Research Assistant Department of Organic Chemistry and Biochemistry, University “Al. I. Cuza”, Iasi, Romania.
2001 – 2003	Preparation Assistant Department of Organic Chemistry and Biochemistry, University “Alexandru Ioan Cuza”, Iasi, Romania.

Scientific interest:

- Organic chemistry;
- Structural organic analysis;
- Heterocyclic chemistry;
- Medicinal chemistry;
- Organic semiconductors;
- Fluorescent materials;
- Supramolecular chemistry.

Summary of qualifications:

- Synthesis and characterization of organic compounds;
- Teaching lectures and labs: Organic chemistry; Heterocyclic chemistry; Advances Organic • Synthesis; Structural Analysis of Organic Compounds; Fragrances, Flavoring Compounds and Food Additives.
- Supervising the activity of undergraduate, master and PhD students in Organic Chemistry laboratories.
- Developed skills in organic synthesis and characterization of organic compounds, biological testing.
- Interdisciplinary researcher with a broad range of skills that transcend traditional subdisciplines of chemistry.
- Good computer skills: OS Windows, Microsoft Office, ChemOffice.
- Multilingual: Romanian, English, French.

Scientific contribution:

- 83 scientific papers;
- over 100 papers presented at national and international conferences/events;
- 5 book chapter /books co-author;
- 1 patent;
- project manager or PI of 3 research projects and research member in other research projects;
- long-term expert or short-term expert for institutional projects;
- Editor in Chief of Acta Chemica Iasi journal from 2017;
- Reviewer for: Journal of Enzyme Inhibition and Medicinal Chemistry, Tetrahedron, RSC Advances, Biomolecules, Antioxidants, Medicinal Chemistry, Organic&Biorganic Chemistry,

List of Publications:

1. R. Ciorteanu, C.I. Ciobanu, N. Cibotariu, S. Shova, V. Antoci, I. I. Mangalagiu, **R. Danac***, Functionalized Indolizines as Potential Anticancer Agents: Synthetic, Biological and In Silico Investigations, *Int. J. Mol. Sci.*, (2025), **26(17)**, 8368.
2. R. Ciorteanu, A. Danila, C. I. Ciobanu, I. Radu, I. I. Mangalagiu, R. Danac, Efficient Synthesis of Unsymmetrical 7,7'-Biindolizines, *Molbank*, (2025), **2025**, M2074.
3. C. Moldoveanu, I. I. Mangalagiu, G. Zbancioc*, **R. Danac***, G. Tataringa, A. M. Zbancioc, Anticancer Potential of Azatetracyclic Derivatives: In Vitro Screening and Selective Cytotoxicity of Azide and Monobrominated Compounds, *Molecules*, (2025), **30(3)**, 702.
4. A. Al-Matarneh, N. Simionescu; A. Nicolescu, N. Cibotariu, R. Danac, M. C. Al-Matarneh, I. I. Mangalagiu, Pyrrolo-Fused Phenanthridines as Potential Anticancer Agents: Synthesis, Prediction, and Biological Evaluation, *J. Biochem. Mol. Toxicol.*, (2025), **39(9)**, e70443.
5. C. M. Al Matarneh, A. Nicolescu*, S. Shova, M. Apostu, R. Puf, F. Mocci, A. Laaksonen, I. I. Mangalagiu, **R. Danac***, Revisiting Fused-Pyrrolo-1,10-Phenanthroline Derivatives: Novel Transformations and Stability Studies, *ChemistryOpen*, (2025), **14(7)**, e202400365.
6. M. C. Al-Matarneh, A. Nicolescu, I.-A. Dascalu, S. Shova, C.-D. Varganici, A. Fifere, R. Danac, I.-C. Marinas, Synthesis of New Zinc and Copper Coordination Polymers Derived from Bis (Triazole) Ligands, *Crystals*, (2024), **14**, 144.
7. V. Mangalagiu, R. Danac, D. Diaconu, G. Zbancioc, I.I. Mangalagiu, Hybrids Diazine: Recent Advancements in Modern Antimicrobial Therapy, *Curr. Med. Chem.*, (2024), **31(19)**, 2687- 2705.
8. M.-C. Sardaru, C.-M. Al Matarneh, N. Simionescu, I.I. Mangalagiu, M. Pinteala, **R. Danac**, New Monoquaternary Salts of N-Heterocycles: Synthesis and Antitumor Assesment, *Rev. Roum. Chim.*, (2024), **69(1-2)**, 63-74.
9. C. Doroftei, L. Leontie, **R. Danac**, C.M. Al-Matarneh, A. Carlescu, Exploring Pyrrolo-Phenanthrolines as Semiconductors for Potential Implementation in Organic Electronics, *Materials*, (2023), **16(9)**, 3366.
10. L. Oniciuc, D. Amariuca-Mantu, D. Diaconu, V. Mangalagiu, R. Danac, V. Antoci, I.I. Mangalagiu, Benzoquinoline Derivatives: An Attractive Approach to Newly Small Molecules with Anticancer Activity, *Int. J. Mol. Sci.*, (2023), **24(9)**, 8124.
11. R. M. Amarandi, C.-M. Al Matarneh, L. Popovici, C. I. Ciobanu, A. Neamtu, I. I. Mangalagiu, **R. Danac***, Exploring Pyrrolo-Fused Heterocycles as Promising Anticancer Agents: An Integrated Synthetic, Biological, and Computational Approach, *Pharmaceuticals*, (2023), **16(6)**, 865.
12. C. Doroftei, A. Carlescu, L. Leontie, R. Danac, C.M. Al-Matarneh, Structural, Electrical and optical properties of pyrrolo[1,2-*i*][1,7] phenanthroline based organic semiconductors, *Materials*, (2022), **15(5)**, 1684.
13. D. Amariuca-Mantu, V. Antoci, M. C. Sardaru, C. M. Al Matarneh, I. Mangalagiu, **R. Danac***, Fused pyrrolo-pyridines and pyrrolo-(iso)quinoline as anticancer agents, *Phys. Sci. Rev.*, (2023), **8(9)**, 2583-2645.
14. C.M. Al Matarneh*, I. Rosca, S. Shova, **R. Danac***, Synthesis and properties of new fused pyrrolo-1,10-phenanthroline type derivatives, *J. Serb. Chem. Soc.*, (2021), **86(10)**, 901-915.
15. C.M. Al Matarneh, R. M. Amarandi, I. I. Mangalagiu, **R. Danac***, Synthesis and biological screening of new cyano-substituted pyrrole fused (iso)quinoline derivatives, *Molecules*, (2021), **26**, 2066.
16. A.-M. Craciun, A. Rotaru, C. Cojocar, I.I. Mangalagiu, **R. Danac***, New 2,9-disubstituted-1,10-phenanthroline derivatives with anticancer activity by selective targeting of telomeric G-quadruplex DNA, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, (2021), **249**, 119318.
17. M.-C. Sardaru, A. M. Craciun, C.-M. Al Matarneh, I. A. Sandu, R. M. Amarandi, L. Popovici, C. I. Ciobanu, D. Peptanariu, M. Pinteala, I. I. Mangalagiu, **R. Danac***, Cytotoxic substituted indolizines as new colchicine site tubulin polymerisation inhibitors, *J. Enz. Inhib. Med. Chem.*, (2020), **35(1)**, 1581-1595.
18. V. Antoci, C. Moldoveanu, **R. Danac**, V. Mangalagiu, G. Zbancioc, Huisgen [3 + 2] Dipolar Cycloadditions of Phthalazinium Ylides to Activated Symmetric and Non-Symmetric Alkynes, *Molecules*, (2020), **25(19)**, 4416.

19. M.-C. Sardaru, O. Carp, E.-L. Ursu, A.-M. Craciun, C. Cojocaru, M. Sillion, V. Kovalska, I. Mangalagiu, **R. Danac**, A. Rotaru, Cyclodextrin Encapsulated pH Sensitive Dyes as Fluorescent Cellular Probes: Self-Aggregation and In Vitro Assessments, *Molecules*, (2020), **25(19)**, 4397.
20. C. Gherasim, A. Airinei*, R. Tigoianu, A.M. Craciun, **R. Danac***, A. Nicolescu, D. L. Isac, I.I. Mangalagiu, Synthesis and photophysical insights on new fused N-heterocyclic derivatives with isoquinoline skeleton, *J. Mol. Liq.*, (2020), **310**, 113196.
21. C.M. Al Matarneh, C.I. Ciobanu, V. Mangalagiu, Gh. Zbancioc*, **R. Danac***, Microwave Assisted Synthesis of Six Member Ring Azaheterocycles and Their Antimycobacterial and Anticancer Evaluation, *Rev. Chim.*, (2020), 71(3), 287-293.
22. D. Amariuca-Mantu, V. Mangalagiu, R. Danac, I.I. Mangalagiu, Microwave assisted reactions of azaheterocycles for medicinal chemistry applications, *Molecules*, (2020), 25(3), 716.
23. **R. Danac**, A. Pui, I. Corja, R.-M. Amarandi, C.I. Ciobanu, M.-O. Apostu, O. Palamarciuc, New M(II) (M=Mn, Co, Ni, Cu, Zn, Pd) coordinative compounds with 2-formylpyridine S-methylisothiosemicarbazide, *J. Mol. Struct.*, (2020), **1207**, 12747.
24. C.M. Al Matarneh, R.M. Amarandi, A.M. Craciun, I.I. Mangalagiu, G. Zbancioc*, **R. Danac***, Design, synthesis, molecular modelling and anticancer activities of new fused phenanthrolines, *Molecules*, (2020), **25**, 527.
25. C.M. Al Matarneh, M.C. Sardaru, M.O. Apostu, I. Rosca, C. I. Ciobanu, I.I. Mangalagiu, **R. Danac**, Synthesis and antibacterial evaluation of new pyrrolo[3',4':3,4]pyrrolo[1,2-a]quinoline and pyrrolo[3',4':3,4]pyrrolo[2,1-a]isoquinoline derivatives, *Studia UBB Chimia*, **LXIV(3)**, (2019), 67-80.
26. L. Popovici, R.M. Amarandi, I.I. Mangalagiu, V. Mangalagiu, **R. Danac**, Synthesis, molecular modelling and anticancer evaluation of new pyrrolo[1,2-b]pyridazine and pyrrolo[2,1-a]phthalazine derivatives, *J. Enz. Inhib. Med. Chem.*, **34(1)**, (2019), 230-243.
27. L. Leontie, **R. Danac**, A. Carlescu, C. Doroftei, G.G. Rusu, V. Tiron, S. Gurlui, O. Susu, Electric and optical Properties of some new functional lower-rim-substituted calixarene derivatives in thin films, *Appl. Phys. A*, **124**, (2018), 355.
28. A. Airinei, R. Tigoianu, **R. Danac**, C.M. Al Matarneh, D.L. Isac, Steady state and time resolved fluorescence studies of new indolizine derivatives with phenanthroline skeleton, *J. Lumin.*, **199**, (2018), 2-12.
29. C. M. Al Matarneh, C. I. Ciobanu, M. O. Apostu, I. I. Mangalagiu, **R. Danac**, Cycloaddition versus amidation in reactions of 2-amino-2-oxoethyl-phenanthroline ylides to activated alkynes and alkenes, *C. R. Chimie*, **21(1)** (2018), 1-8.
30. G. Pricope, E. L. Ursu, M. Sardaru, C. Cojocaru, L. Clima, N. Marangoci, **R. Danac**, I. Mangalagiu, B. C. Simionescu, M. Pinteala, A. Rotaru, Novel cyclodextrin-based pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles, *Polym. Chem.*, **9**, (2018), 968-975.
31. A.-M. Olaru, V. Vasilache, **R. Danac**, I. I. Mangalagiu, Antimycobacterial activity of nitrogen heterocycles derivatives: 7-(pyridine-4-yl)-indolizine derivatives. Part VII, *J. Enz. Inhib. Med. Chem.*, **32(1)**, (2017), 1291-1298.
32. N.-L. Marangoci, L. Popovici, E.-L. Ursu, **R. Danac**, L. Clima, C. Cojocaru, A. Coroaba, A. Neamtu, I.I. Mangalagiu, M. Pinteala, A. Rotaru, Pyridyl-indolizine derivatives as DNA binders and pH-sensible fluorescent dyes, *Tetrahedron*, **72**, (2016), 8215-8222.
33. **R. Danac**, L. Leontie, A. Carlescu, S. Shova, V. Tiron, G. G. Rusu, F. Iacomi, S. Gurlui, O. Şuşu, Gh. I. Rusu, Electric Conduction Mechanism of Some Heterocyclic Compounds, 4,4'-Bipyridine and Indolizine Derivatives in Thin Films, *Thin Solid Films*, **612**, (2016), 358-368.
34. C.M. Al Matarneh, M.O. Apostu, I.I. Mangalagiu, **R. Danac**, Reactions of ethyl cyanofornate with cycloimmonium salts: a direct pathway to fused or substituted azaheterocycles, *Tetrahedron*, **72**, (2016), 4230-4238.
35. C.M. Al Matarneh, I. I. Mangalagiu, S. Shova, **R. Danac**, Synthesis, structure, antimycobacterial and anticancer evaluation of new pyrrolo-phenanthroline derivatives, *J. Enz. Inhib. Med. Chem.*, **31(3)**, (2016), 470-480.
36. C.M. Al Matarneh, C. I. Ciobanu, I. I. Mangalagiu, **R. Danac**, Design, synthesis and antimycobacterial evaluation of some new azaheterocycles with 4,7-phenanthroline skeleton. Part VI, *J. Serb. Chem. Soc.* **81(2)**, (2016), 133-140.
37. R. Postolache, R. Danac, A. Pui, New Coordinative Compounds with 4-(4'-pyridyl)pyridinium Disubstituted Monoylides, *Croat. Chem. Acta*, **88(3)**, (2015), 207-211.

38. **R. Danac**, C. M. Al Matarneh, S. Shova, T. Daniloaia, M. Balan, I.I. Mangalagiu, New indolizines with phenanthroline skeleton: synthesis, structure, antimycobacterial and anticancer evaluation, *Bioorg. Med. Chem.*, **23**, (2015), 2318-2327.
39. R. Rusu, A. Szumna, N. Rosu, C. Dumea, **R. Danac**, New Triazole Appended *tert*-Butyl Calix[4]arene Conjugates: Synthesis, Hg²⁺ Binding Studies, *Tetrahedron*, **71**, (2015), 2922-2926.
40. C.M. Al Matarneh, **R. Danac**, L. Leontie, F. Tudorache, I. Petrila, F. Iacomì, A. Carlescu, G. Nedelcu, I. Mangalagiu, Synthesis and electron transport properties of some new 4,7-phenanthroline derivatives in thin films, *Environmental Engineering and Management Journal*, **14(2)**, (2015), 421-431.
41. **R. Danac**, T. Daniloaia, V. Antoci, V. Vasilache, I. I. Mangalagiu, Design, Synthesis and Antimycobacterial Activity of Some New Azaheterocycles: Phenanthroline with *p*-halo-benzoyl Skeleton. Part V, *Lett. Drug Des. Discov.*, **12**, (2015), 14-17.
42. **R. Danac**, L. Leontie, M. Girtan, M. Prelipceanu, A. Graur, A. Carlescu, G.I. Rusu, On the d.c. electric conductivity and conduction mechanism of some stable disubstituted 4-(4-pyridyl)pyridinium ylides in thin films, *Thin Solid Films*, **556**, (2014), 216-222.
43. C. Rimbu, **R. Danac**, A. Pui, Antibacterial Activity of Pd(II) Complexes with Salicylaldehyde-amino Acids Schiff Bases Ligands, *Chem. Pharm. Bull.*, **62(1)**, (2014), 12-15.
44. **R. Danac**, I. Mangalagiu, Antimycobacterial activity of nitrogen heterocycles derivatives: bipyridine derivatives. Part III, *Eur. J. Med. Chem.*, **74**, (2014), 664-670.
45. R. Postolachi, **R. Danac**, A. Moise, T. Malutan, M. Przybylski, A. Pui, Cobalt (II), nickel (II) and copper (II) complexes with cycloimmonium ylides as potential inhibitors for Glutamate Racemase, *Rev. Chim. (Bucharest, Romania)*, **64(11)**, (2013), 1301-1306.
46. R. Postolachi, **R. Danac**, N. J. Buurma, A. Pui, M. Balan, S. Shova, C. Delanu, New Cycloimmonium Ylide Ligands and their Palladium (II) Affinities, *RSC Advances*, **3**, (2013), 17260-17270.
47. L. Leontie, **R. Danac**, M. Girtan, A. Carlescu, A.P. Rambu, G.I. Rusu, Electron transport properties of some new 4-*tert*-butylcalix[4]arene derivatives in thin films, *Materials Chemistry and Physics*, **135**, (2012), 123-129.
48. **R. Danac**, L. Leontie, A. Carlescu, G.I. Rusu, DC Electric Conduction Mechanism of Some Newly Synthesized Indolizine Derivatives in Thin Films, *Materials Chemistry and Physics*, **134**, (2012), 1042-1048.
49. **R. Danac**, R. Rusu, A. Rotaru, A. Pui, S. Sova, New Conjugates of Calix[4]arenes Bearing Bipyridine and Indolizine Heterocycles, *Supramolecular Chemistry*, **24(6)**, (2012), 424-435.
50. L. Leontie, **R. Danac**, N. Apetroaei, G.I. Rusu, Study of electronic transport properties of some new N-(*p*-R-phenacyl)-1,7-phenanthroline bromides in thin films, *Materials Chemistry and Physics*, **127**, (2011), 471-478.
51. L. Leontie, **R. Danac**, I. Druta, A. Carlescu, Electron transport properties of some newly synthesized nonsymmetrical bisindolizines in thin films, *Synthetic Metals*, **160 (23-24)**, (2010), 2526-2533.
52. R. Gradinaru, A. Luca, I. Cretescu, **R. Danac**, Fluorescent conjugates: pH stability, dye-DNA interaction and biological activity, *Rev. Chim. (Bucharest)*, **61(9)**, (2010), 903-906.
53. L. Leontie, **R. Danac**, I. Druta, A. Carlescu, G. I. Rusu, Newly synthesized fused heterocyclic compounds in thin films with semiconductor properties, *Synthetic Metals*, **160**, (2010), 1273-1279.
54. M. Dumitras, N. Apostolescu, A. Luca, **R. Danac**, Thermal degradation of some new 7-(4'-pyridyl)-indolizine derivatives, *Acta Chemica Iasi*, **17**, (2009), 209-218.
55. A. Rotaru, I. Druta, E. Avram, **R. Danac**, Synthesis and properties of fluorescent 1,3-substituted mono and biindolizines", *Arkivoc*, **13**, (2009), 287-299.
56. E. van Dijkum, **R. Danac**, D.J. Hughes, R. Wood, A. Rees, B. L. Wilkinson and A. J. Fairbanks, Synthesis of glucose derivatives modified at the 4-OH as potential chain-terminators of cellulose biosynthesis; herbicidal activity of simple monosaccharide derivatives, *Organic & Biomolecular Chemistry*, **7**, (2009), 1097-1105.
57. **R. Danac**, L. Ball, S. J. Gurr and A. J. Fairbanks, Synthesis of UDP-GlcNAc Derivatives Modified at OH-3 as Potential Chain Terminators of Glucan Biosynthesis, *Carbohydr. Res.*, **343**, (2008), 1012-1022.
58. L. Leontie, **R. Danac**, I. Druta and G.I. Rusu, Electronic transport properties of 1-(*p*-R-phenacyl)-4-[(1'-ethylcarboxylate)-(3'-*p*-R'-phenacyl)]-7'-indoliziny]pyridinium bromides in thin films, *Thin Solid Films*, **516(7)**, (2008), 1599-1603.
59. M. Prelipceanu, O. S. Prelipceanu, L. Leontie, **R. Danac**, Photoelectron spectroscopy investigations of pyrrolo[1,2-*a*][1,10]phenanthroline derivatives, *Physics Letters A*, **368(3-4)**, (2007), 331-335.

60. T. Muller, **R. Danac**, L. Ball, S. J. Gurr and A. J. Fairbanks, Synthesis of UDP-GlcNAc Derivatives Modified at OH-4 as Potential Chain Terminators of Chitin Biosynthesis, *Tetrahedron: Asymmetry*, **18**, (2007), 1299-1307.
61. **R. Danac**, L. Ball, S. J. Gurr, T. Muller and A. J. Fairbanks, Carbohydrate Chain Terminators: Rational Design of Novel Carbohydrate-Based Antifungal Agents, *ChemBioChem*, **8**, (2007), 1241-1245.
62. **R. Danac**, T. Daniloaia, M. Ungureanu, I. Druta, Nouveaux dérivés de la 1,7-phénantroline et 4,5-diazofluoren-9-one et leur activité antimicrobienne et antifongique *in vitro*, *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, tom **XV**, nr.1, (2007), 33-36.
63. L. Leontie, **R. Danac**, I. Druta, Electrical conduction mechanism in N-(p-R-phenacyl)-4,5-diazafluorenium-9-one bromides thin films, *Synthetic Metals*, **155(2-4)**, (2006), 224-229. (1.788)
64. L. Leontie, **R. Danac**, Optical properties of some new synthesized organic semiconductors in thin films, *Scripta Materialia*, **54(2)**, (2006), 175-179.
65. L. Leontie, I. Druta, **R. Danac**, and G.I. Rusu, On the electronic transport properties of pyrrolo[1,2-a]phenanthroline derivatives in thin films, *Synthetic Metals*, **155(1)**, (2005), 138-145. (ISI 1.788)
66. A. Rotaru, **R. Danac**, I. Druta, A. Vlahovici, Synthesis of fluorescent biindolizines with possible applications in environmental analyses, *Bulletin of the Transilvania University of Brasov, Series D, Special Edition EnvEdu 2005*, (2005), 297-299.
67. L. Leontie, I. Druta, **R. Danac**, M. Prelipceanu, G.I. Rusu, Electrical properties of some new high resistivity organic semiconductors in thin films, *Progress in Organic Coatings*, **54(3)**, (2005), 175-181.
68. A. Rotaru, **R. Danac**, I. Druta, G. Drochioiu, I. Cretescu, Synthesis and biological activity of diquaternary salt derivatives of 4,4'-bipyridil, *Rev. Chim. (Bucharest, Romania)*, **56(2)**, (2005), 179-183. (ISI 0.261)
69. **R. Danac**, M. Constantinescu, A. Rotaru, A. Vlahovici, I. Cretescu, I. Druta, Study of Dipolar Cycloaddition Reaction of 1,10-Phenanthroline Ylides to Activated Alkenes, *Rev. Chim. (Bucharest, Romania)*, **56(1)**, (2005), 85-88. (ISI 0.261)
70. **R. Danac**, M. Constantinescu, A. Rotaru, C. Ghirvu, I. Druta, Synthesis of Novel 4,5-Diazafluoren-9-one Derivatives and Theoretical Study of 3+2 Cycloaddition Reactions, *J. Heterocycl. Chem.*, **41**, (2004), 983-996.
71. A. Rotaru, **R. Danac**, I. Druta, Synthesis of New Non-Symmetrical 7,7'-Bisindolizines by the Direct Reaction of 4,4'-Bipyridinium-Ylides with Dimethyl Acetylenedicarboxylate, *J. Heterocycl. Chem.*, **41**, (2004), 893-897.
72. M. Irimia, G. Lisa, **R. Danac**, N. Aelenei, I. Druta, Physico-Chemical Characterization of Some Diquaternary Salts of 4,4'-Bipyridyl, *Croat. Chem. Acta*, **77** (4), (2004), 587-591.
73. A. Rotaru, M. Ungureanu, **R. Danac***, A. Poeata, I. Druta, Activite antimicrobienne *in vitro* de nouveaux sels diquaternaires derives de la 4,4'-bipyridine, *Ann. Pharm. Fr.* (2004), **62**, 428-430.
74. L. Leontie, I. Druta, **R. Alupoae**, G. I. Rusu – On the electronic transport in some new synthesized high resistivity organic semiconductors in thin films, *Mat. Sci. Eng.*, **B100** (2003) 252-258.
75. **R. Danac**, A. Rotaru, G. Drochioiu, I. Druta - Synthesis of novel phenanthroline derivatives by 3+2 dipolar cycloaddition reaction, *J. Heterocycl. Chem.*, **40**, 283 (2003).
76. G. Drochioiu, A. Pui, **R. Danac**, C. Basu, M. Murariu – Improved spectrophotometric assay of cyanide with picric acid and resorcinol, *Rev. Roum. Chim.*, (2003), **48(8)**, 601-606.
77. G. Drochioiu, I. Ardeleanu, T. L. Timofte, **R. Danac**, I. Druta – Selective and Sensitive cyanide assay, *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, tom **XI**, nr.1, (2003), 155-160.
78. I. Druta, C. Cuciuc, **R. Danac**, E. Avram, A. Rotaru, G. Drochioiu – The phytotoxic effect of some new monoquaternary salts of 4,4'-bipyridyl and 1,10-phenanthroline. *Pakistan J. Appl. Sci.*, (2002) **2(2)** 145 – 150.
79. I. Druta, **R. Danac**, M. Ungureanu, G. Grosu, D. Drochioiu – Activite antimicrobienne *in vitro* de nouveaux derives de la 1,10-phenanthroline, *Ann. Pharm. Fr.* (2002), **60**, 348-351.
80. **R. Danac**, M. Irimia, A. Rotaru, G. Drochioiu, I. Druta - Study of the Basicity of Some 1,10-Phenanthroline Ylides, *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, tom **X**, nr.2, (2002), 283-286.
81. I. Druta, **R. Danac**, G. Drochioiu - Phytotoxic activity of some new monoquaternary salts derived from 1,10-phenanthroline. *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, tom **IX**, (2001), 143-148.
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National research projects:

1. Research team member: PN-III-P4-ID-PCE-2020-0371, PCE 115 from 11/02/2021, <https://teclu.chem.uaic.ro/antimheteco/reports/2021-report/>, Towards the development of next generation of antimicrobials agents with hybrid azaheterocycle skeleton using eco-friendly methods, ANTIM-HET-ECO, Project Manager: Prof. dr. Ionel MANGALAGIU
2. Research team member: Grant bilateral Romania – Moldova, grant nr. 31BM/15.09.2016, 2016-2017, Guided synthesis and study of chiral complexes containing terpeno-heterocyclic ligands, ANCS, PN-II, Modul III, Managers: dr. Costel Moldoveanu, Romania/ dr. Aculina Aracu, Academy of Science of Rep. Moldova.
3. Research team member: Grant bilateral Romania – Moldova, grant nr. 682/2013, 2013-2014. Project title: Synthesis of new biological active compounds with terpenic structural units, Funded by UEFISCDI, Ministry of Education in Romania and Government of Moldova, Project managers: dr. Gheorghiu ZBANCIOC Universitatea Alexandru Ioan Cuza Iasi / dr. Alexandru Ciocârlan, Academy of Science of Rep. Moldova.
4. Research team member: Grant bilateral Romania – Moldova, grant nr. 418/02.06.2010, Project title: Biologically active compounds with terpenoid and azaheterocycle skeleton through conventional and nonconventional methods, ANCS, PN-II, Modul III, Project managers: dr. Ionel Mangalagiu, Romania/ dr. Aculina Aracu, Academy of Science of Rep. Moldova.
5. Project manager for PNII, MEC-CNCSIS code: IDEI_2023/2008-2011, Project title: Synthesis of new substituted calixarenes containing bipyridines and phenanthrolines derivatives and their properties and potential applications. (grant value: 100000 EUR)
6. Research team member for PN-II-Idei, MEC-CNCSIS code: IDEI_2095/2008-2011, Project title: Intramolecular interactions in pseudogeminal substituted [2.2]-paracyclophanes, Project manager: dr. Lucian Birsa.
7. Research team member for PN-II-Idei, MEC-CNCSIS code: IDEI_2643/2008-2011, Project title: Synthesis and potential applications of new phenothiazine derivatives, Project manager: dr. Dalila Belei.
8. Research team member: Microbiological Membranes and Biocompatible Synthetic Polymers with Potential Applications to Grant PPNII CNMP 4300/2008, CONTRACT 32-173/2008, MEMBRANES AND BIOCOMPATIBLE SYNTHETIC POLYMERS WITH POTENTIAL APPLICATIONS TO RELEASING HEAVY AND RADIOACTIVE METALS FROM THE ENVIRONMENT. PROJECT MANAGER: PROF DR. GABI DROCHIOIU.
9. Project manager for Grant TD no. 3 CNCSIS 172 (2005-2006) Project title: Synthesis of New Phenanthroline and Bipyridine Derivatives and Their Biological, Electrical and Optical Properties.
10. Research team member: Grant A, CNCSIS 97/2003-2004 Project title: "Cyanide type waste products: characterization, detection, decontamination and their impact to the biostructure of living organisms"-project manager: dr. Gabi Drochioiu.
11. Research team member: Grant A, CNCSIS 566/2002-2003 Project title: "Cyanide type waste products: characterization, detection, decontamination and their impact to the biostructure of living organisms"-project manager: dr. Gabi Drochioiu.
12. Research team member: World Bank Grant type C, no. 27423/23.02.2000, code CNCSU/ CNIFS 109, "Researches in the field of cycloimmonium ylides (nitrogen-ylides). synthesis, structure, reactivity and applications", Project manager: dr. Ionel Mangalagiu.
13. Research team member: Grant CNCSIS 154, 1999-2002 "Researches in the indolizines and azaindolizines field. Synthesis, structure, properties, biological activity" –project manager: dr. Ioan Druta.

International projects:

1. PI for Intra-european Marie Curie Fellowship, contract MEIF-CT-2005-022646, 2005-2007 – “New Inhibitors of Bacterial and Fungal Cell Wall Biosynthesis”, Oxford University, UK (grant value: 229000 euro)

Other Projects:

1. Career development expert for the project ACCESS cod CNFIS-FDI-2017-0316. Identifying and analyzing the expectations of employers and graduates of the "Alexandru Ioan Cuza" University of Iasi (UAIC) on access and integration into the labor market (July-December 2017).
2. Long term expert for project POSDRU/161/2.1/G/141661. Facilitate the insertion of future chemistry graduates into the labor market (2014-2015).

3. Short term expert for project POSDRU/86/1.2/S/56283. Management of communication with alumni for higher education institutions in Romania (2013).
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5. Project manager for Mobility project: PN-III-P1-1.1-MC-2017-0380, 2017.
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Patents:

1. Mangalagiu, I.I.; Amăriucăi-Mantu, D.; Antoci, V.; Zbancioc, G.; Moldoveanu, C.; Cucu, D.; Dănac, R.; Mangalagiu, V.: Process for obtaining a novel class of anthracene-imidazole compounds with antituberculosis activity/Procedeu pentru obținerea unei noi clase de compuși antracen-imidazolici cu activitate antituberculoasă, patent no. RO134192-A0/2020, Oficiul de Stat pentru Invenții și Mărci, Property Rights Owner: Universitatea „Alexandru Ioan Cuza” din Iași, România

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Prof. dr. Ramona Danac