
Curriculum vitae Europass

Informații personale

Nume / Prenume **Danac Ramona**
Pozitie **Profesor universitar**
Loc de munca **Universitatea Alexandru Ioan Cuza din Iasi**
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Experiența profesională

Perioada	2020 – prezent
Functia si postul ocupat	Profesor universitar
Nume si adresa angajatorului	Departamentul de Chimie, Universitatea “Al I. Cuza”, Iasi, Romania;
Perioada	2013 – 2020
Functia si postul ocupat	Conferentiar universitar
Nume si adresa angajatorului	Departamentul de Chimie, Universitatea “Al I. Cuza”, Iasi, Romania;
Perioada	2006 – 2013
Functia si postul ocupat	Lector universitar
Nume si adresa angajatorului	Departamentul de Chimie, Universitatea “Al I. Cuza”, Iasi, Romania;
Perioada	2003 – 2006
Functia si postul ocupat	Asistent universitar
Nume si adresa angajatorului	Departamentul de Chimie, Universitatea “Al I. Cuza”, Iasi, Romania;
Perioada	2001 – 2003
Functia si postul ocupat	Preparator universitar
Nume si adresa angajatorului	Departamentul de Chimie, Universitatea “Al I. Cuza”, Iasi, Romania;

Educatie si formare

Perioada	09.2012–12.2012
Calificarea/diploma obtinuta Numele și tipul instituției de învățământ	Stagiu de cercetare DAAD pentru cadre didactice si cercetatori; Institutul Tehnologic Karlsruhe, Germania, titlul proiectului: “Molecule rigide in forma de stea ca suport pentru cataliza omogena”.(Prof. Stefan Bräse)
Perioada	01.11. 2005 –31.10. 2007
Calificarea/diploma obtinuta Numele și tipul instituției de învățământ / furnizorului de formare	Stagiu postdoctoral Marie Curie EIF, Chemistry Research Laboratory, Universitatea Oxford, Marea Britanie, titlul proiectului: “Noi inhibitori ai biosintezei peretilor celulelor bacteriene si fungice”, Coordonator stiintific: Dr. Antony Fairbanks (MEIF-CT-2005-022646, 2005-2007).
Perioada	1999 - 2003
Calificarea/diploma obtinuta Numele și tipul instituției de învățământ Nivelul în clasificarea națională sau internațională	Stagiu de doctorat; Organic Chemistry Organic Chemistry and Biochemistry Department Faculty of Chemistry “Al. I. Cuza” University, Iasi, Romania Coordonator stiintific: Prof. Ioan Druta Thesis title: Researches in the Field of 1,10-Phenanthroline
Perioada	1997 – 1999
Calificarea/diploma obtinuta Numele și tipul instituției de învățământ / furnizorului de formare	M.Sc., Heterocyclic Chemistry and Biochemistry Organic Chemistry and Biochemistry Departmen Faculty of Chemistry “Al. I. Cuza” University, Iasi, Romania Coordonator stiintific: Prof. Valeriu Sunel Thesis title: Nitrogen Yperites
Perioada	1993 – 1997
Calificarea/diploma obtinuta Numele și tipul instituției de învățământ	B.Sc., Department of Chemistry-Physics Faculty of Chemistry “Al. I. Cuza” University of Iasi, Romania
Perioada	1989 -1993
Calificarea/diploma obtinuta Numele și tipul instituției de învățământ	Liceul Sanitar Iasi, Romania

Interesul științific:

- ◆ Chimia organica
 - ◆ Analiza structurala organica
 - ◆ Chimia heterociclurilor
 - ◆ Chimie medicala
 - ◆ Semiconductori organici
 - ◆ Materiale avansate cu proprietati fluorescente
 - ◆ Chimie supramoleculara
-

Contribuția științifică:

- ◆ 71 articole științifice, dintre care 61 publicate în reviste internaționale cotate ISI;
 - ◆ autor sau co-autor a 90 de prezentări la conferințe sau alte evenimente științifice;
 - ◆ co-autor a 5 cărți/capitole de carti;
 - ◆ co-autor a unui brevet national;
 - ◆ director sau PI pentru trei proiecte (contracte) de cercetare și membru în 12 proiecte de cercetare derulate în perioada 1999 – 2020;
 - ◆ expert pe termen lung sau scurt in cadru a patru proiecte de dezvoltare institutionala;
 - ◆ editor sef al revistei Acta Chemica Iasi din 2017;
 - ◆ referent la jurnale precum: Tetrahedron, RSC Advances, Biomolecules, Medicinal Chemistry, Organic&Biorganic Chemistry, Medicinal Chemistry Research, Arabian Journal of Chemistry, Letters in Drug Design and Discovery, etc
-

Lista articolelor științifice publicate:

1. 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.*, (2021), in press.
2. 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.
3. 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.
4. A.-M. Craciun, A. Rotaru, C. Cojocaru, 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.
5. 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.
6. 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.
 7. 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.
 8. 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.
 9. 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.
 10. D. Amariuca-Mantu, V. Mangalagiu, **R. Danac**, I.I. Mangalagiu, Microwave assisted reactions of azaheterocycles for medicinal chemistry applications, *Molecules*, (2020), **25(3)**, 716.
 11. **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-methyl-isothiosemicarbazide, *J. Mol. Struct.*, (2020), **1207**, 12747.
 12. 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, 16p.
 13. 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 Chemia*, **LXIV(3)**, (2019), 67-80.
 14. 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.
 15. L. Leontie, **R. Danac**, A. Carlescu, C. Doroftei, G.G. Rusu, V. Tiron, S. Gurlui, O. Susu, Electric and optical Properties of some new funtional lower-rim-substituted calixarene derivatives in thin films, *Appl. Phys. A*, **124**, (2018), 355, 12 p.
 16. 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.
 17. 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.
 18. 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.
 19. 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.
 20. 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.

21. **R. Danac**, L. Leontie, A. Carlescu, S. Shova, V. Tiron, G. G. Rusu, F. Iacomi, S. Gurlui, O. Șușu, 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.
22. 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.
23. 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.
24. 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.
25. R. Postolache, R. Danac, A. Pui, New Coordinative Compounds with 4-(4'-pyridyl)pyridinium Disubstituted Monoylides, *Croat.Chem. Acta*, **88(3)**, (2015), 207-211.
26. **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.
27. 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.
28. C.M. Al Matarneh, **R. Danac**, L. Leontie, F. Tudorache, I. Petrița, F. Iacomi, 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.
29. **R. Danac**, T. Daniloaia, V. Antoci, V. Vasilache, I. I. Mangalagiu, Design, Synthesis and Antimycobacterial Activity of Some New Azaheterocycles: Phenanthroline with *p*-halobenzoyl Skeleton. Part V, *Lett. Drug Des. Discov.*, **12**, (2015), 14-17.
30. **R. Danac**, L. Leontie, M. Girtan, M. Prelipeanu, 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.
31. C. Rimbu, **R. Danac**, A. Pui, Antibacterial Activity of Pd(II) Complexes with Salicylaldehyde-amino Acids Schiff Bases Ligands, *Chemical and Pharmaceutical Bulletin*, **62(1)**, (2014), 12-15.
32. **R. Danac**, I. Mangalagiu, Antimycobacterial activity of nitrogen heterocycles derivatives: bipyridine derivatives. Part III, *Eur. J. Med. Chem.*, **74**, (2014), 664-670.
33. 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.
34. 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.
35. 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.
36. **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.
37. **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.
38. 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.

39. 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.
40. 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.
41. 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.
42. 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.
43. A. Rotaru, I. Druta, E. Avram, **R. Danac**, Synthesis and properties of fluorescent 1,3-substituted mono and biindolizines", *Arkivoc*, **13**, (2009), 287-299. (ISI 1.253)
44. 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. (ISI 3.55)
45. **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. (ISI 1.96)
46. 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'-indolizinylium bromides in thin films, *Thin Solid Films*, **516(7)**, (2008), 1599-1603. (ISI 1.884)
47. 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. (ISI 1.711)
48. 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. (ISI 2.634)
49. **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. (ISI 3.446)
50. **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.
51. L. Leontie, **R. Danac**, I. Druta, Electrical conduction mechanism in N-(p-R-phenacyl)-4,5-diazofluorenium-9-one bromides thin films, *Synthetic Metals*, **155(2-4)**, (2006), 224-229. (1.788)
52. L. Leontie, **R. Danac**, Optical properties of some new synthesized organic semiconductors in thin films, *Scripta Materialia*, **54(2)**, (2006), 175-179. (ISI 2.481)
53. 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)
54. 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.
55. 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. (ISI 1.54)
56. A. Rotaru, **R. Danac**, I. Druta, G. Drochioiu, I. Cretescu, Synthesis and biological activity of diquatery salt derivatives of 4,4'-bipyridil, *Rev. Chim. (Bucharest, Romania)*, **56(2)**, (2005), 179-183. (ISI 0.261)

57. **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)
58. **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.
59. 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.
60. 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.
61. A. Rotaru, M. Ungureanu, **R. Danac***, A. Poata, I. Druta, Activite antimicrobienne in vitro de nouveaux sels diquaternaires derives de la 4,4'-bipyridine, *Ann. Pharm. Fr.* (2004), **62**, 428-430.
62. 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.
63. **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).
64. 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.
65. 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.
66. 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;
67. 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;
68. **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.
69. I. Druta, **R. Danac**, G. Drochioiu - Phytotoxic activity of some new monoquaternary salts derivated from 1,10-phenanthroline. *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, tom **IX**, (2001), 143-148;
70. I. Druta, **R. Danac**, R. Barbieru, D. Tapu, M. Andrei - Monoquaternary salts derivatives from 1,10-phenanthroline *An. St. Univ. "Al. I. Cuza" Iasi*, s. Chimie, tom **IX**, (2001), 150-154;
71. A. Vlahovici, M. Andrei, **R. Alupoae**, G. Drochioiu, I. Druta - Photophysics of Some Indolizines, Derivatives from Bipyridil, in Various Media, *Rom. Rep. Phys.*, (2001) **35**(9-10), 687-691;

Lista carti/capitole de carte publicate:

1. **Ramona Danac**, Mihaela Roman, Problems of Organic Structural Analysis, Sedcomlibris, Iasi, 2006. (ISBN: 973-670-156-5).
2. Ionel Mangalagiu, **Ramona Danac**, Costel Moldoveanu, Gheorghita Zbancioc, Judiciary Chemistry and Toxicology. Judiciary Separatology, „AIT –SRL Laboratory”Ed., Bucuresti **2011**. (217 pag.) (ISBN: 978-606-8363-09-7x2).
3. Roxana-Maria Amarandi, Maria Cristina Al-Matarneh, **Ramona Danac**, Alcaloizi indolici naturali, Editura Universitatii „Alexandru Ioan Cuza” Iasi, **2017** (172 pag.) (ISBN: 978-606-714-401-7).

4. **Ramona Danac**, Dorina Amariuca-Mantu, Vasilichia Antoci, Gheorghita Zbancioc, Violeta Mangalagiu, Ionel I. Mangalagiu, Microwave assisted reactions for synthesis of bioactive azaheterocycles:, capitol de carte in: *Current Advances in Chemistry and Biochemistry*, vol. 3, Book Publisher International, **2021**, 17-50. (ISSN: 978-93-90768-91-2 (eBook))
5. 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, in *Heterocyclic Anticancer Agents*, Ed. Bimal Krishna Banik and Bubun Banerjee, De Gruyter, 2022, in press.

Proiecte de cercetare nationale:

1. Research team member: Grant bilateral Romania – Moldova, grant nr. 31BM/15.09.2016, 2016-2017, Titlu: Sinteza dirijată și studiul unor complecși chirali conținând liganzi terpeno-heterociclici, Finantator: Guvernul Moldovei și Guvernul României (ANCS, PN-II, Modul III), Directori: conf.dr. Costel Moldoveanu, Romania/ CP I.dr. Aculina Aracu, Academy of Science of Rep. Moldova (Valoare 2016: 15.000 Lei, Valoare 2017: 15.000 Lei).
2. Research team member: Grant bilateral Romania – Moldova, grant nr. 682/2013, perioada: 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, Directori de proiect: Conf. dr. Gheorghită ZBANCIOC Universitatea Alexandru Ioan Cuza Iasi / CP I. dr. Alexandru Ciocârlan, Academia de Stiinta a Moldovei. (Valoarea grantului: 29.000 RON).
3. 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, Finantator: Guvernul Moldovei și Guvernul României (ANCS, PN-II, Modul III), Directori: prof.dr. Ionel Mangalagiu, Romania/ CP I.dr. Aculina Aracu, Academy of Science of Rep. Moldova. (Valoare 2010: 13.135 Euro, Valoare 2011: 13.135 Euro).
4. 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: 100000EUR)
5. 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: conf.dr. Lucian Birsa.
6. Research team member for PN-II-Idei, MEC-CNCSIS code: IDEI_2643/2008-2011, Project title: Synthesis and potential applications of new phenotiazine derivatives, Project manager: lect.dr. Dalila Belei.
7. 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.
8. 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 (grant value: 20000 RON).
9. 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.
10. 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.

11. 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.
12. 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.

Proiecte internationale:

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)

Alte Proiecte:

1. Expert dezvoltarea carierei in cadrul proiectului ACCESS cod CNFIS-FDI-2017-0316. Identificarea si analiza asteptarilor angajatorilor si absolventilor Universitatii „Alexandru Ioan Cuza” din Iasi (UAIC) privind accesul si integrarea pe piata muncii (iulie-decembrie 2017).
2. Expert pe termen lung in cadrul proiectului: POSDRU/161/2.1/G/141661. „Facilitarea inserției pe piața muncii a viitorilor absolvenți de chimie” (2014-2015).
3. Expert pe termen scurt in proiectul POSDRU/86/1.2/S/56283 “Managementul comunicarii cu alumni pentru institutii de invatamant superior din Romania” (2013).
4. Expert pe termen scurt in cadrul proiectului POSDRU/159/1.5/S/ 137750, Programe doctorale și postdoctorale - suport pentru creșterea competitivității cercetării în domeniul Științelor exacte (2014).

Brevete:

1. Mangalagiu, I.I.; Amăriucăi-Mantu, D.; Antoci, V.; Zbancioc, Ghe.; 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 application no. A/00163/13.03.2019, Oficiul de Stat pentru Invenții și Mărci, Property Rights Owner: Universitatea „Alexandru Ioan Cuza” din Iași, România

13.12.2021

Prof. dr. Ramona Danac

