



Curriculum vitae Europass

Informații personale

Nume / Prenume **Olar Marioara Rodica**
Telefon(oane) (40-21) 4103178/118
Fax(uri) (40-21) 312 16 50
E-mail(uri) rodica_m_olar@yahoo.com, rodica.olar@chimie.unibuc.ro
Naționalitate(-tăți) Romana
Data nașterii 12/03/1963

Experiența profesională

Perioada 2002 - prezent
Funcția sau postul ocupat Conferentiar Universitar
Numele și adresa angajatorului Facultatea de Chimie- Universitatea din Bucuresti

Perioada 1996 - 2002
Funcția sau postul ocupat Sef lucrari
Numele și adresa angajatorului Facultatea de Chimie- Universitatea din Bucuresti

Perioada 1990 - 1996
Funcția sau postul ocupat Asistent Universitar
Numele și adresa angajatorului Facultatea de Chimie- Universitatea din Bucuresti

Perioada 1990 - 1990
Funcția sau postul ocupat Cercetator
Numele și adresa angajatorului Institutul de cercetari metalurgice- Bucuresti

Perioada 1986 - 1990
Funcția sau postul ocupat Chimist
Numele și adresa angajatorului Uzina mecanica „6 Martie” Zarnesti- Brasov

Educație și formare

Perioada 1999
Calificarea/diploma obținută Doctor in Chimie
Numele și tipul instituției de învățământ/furnizorului de formare Facultatea de Chimie- Universitatea din Bucuresti

Perioada 09/1985 - 07/1986
Calificarea/diploma obținută Certificat de specializare
Numele și tipul instituției de învățământ/furnizorului de formare Institutul Politehnic Bucuresti

Perioada 09/1981 - 07/1985
Calificarea/diploma obținută Diploma de Licenta

Aptitudini și competențe personale

Limba maternă

Română

Limbi străine cunoscute

Autoevaluare

Nivel european (*)

Engleza

Franceza

Rusa

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral			
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat
C2	Utilizator experimentat	C2	Utilizator experimentat	B2	Utilizator baza	B2	Utilizator baza	B2	Utilizator baza
C2	Utilizator experimentat	C2	Utilizator experimentat	B2	Utilizator baza	B2	Utilizator baza	B2	Utilizator baza

(*) Cadrul european comun de referință pentru limbi

Activitate didactică

Cursuri

- Stereochimia compușilor anorganici - an V, Secția Chimie-Fizică (fără frecvență) (1995);
- Chimie bioanorganică (Metale) - an II, Biochimie Tehnologică (1996-2006);
- Bazele teoretice ale chimiei coordinative - an III, Secția Chimie-Fizică (1997-2007);
- Compuși coordinativi implicații în protecția mediului - an IV Chimia Mediului (2004-2008);
- Biomolecule anorganice – an V Master, direcția de aprofundare „Chimie coordinativă” (2006-2007);
- Compuși coordinativi cu impact în protecția mediului, an VI, Secția Chimia mediului (2005 - 2007);
- Combinații complexe biologice active - an I M, direcția de aprofundare „Enzimologie aplicată” (2007-2008);
- Interacția sistemelor anorganice cu biomoleculele, an I M, direcția de aprofundare „Biomolecule” Bolognia (2008-2009);
- Chimie bioanorganică (2009-prezent);
- Compuși anorganici în chimio-terapie, an III, Secția Biochimie tehnologică (2007-prezent);
- Compuși anorganici cu acțiune chimio-terapeutică, An I. Master Chimia medicamentelor și produselor cosmetice (2012-prezent).

Cărți de specialitate și caiete de laborator:

- D. Marinescu, R. Olar, M. Badea, Compuși coordinativi naturali, Ed. Univ. București, 2009 (ISBN 978-973-737-670-1);
- Rodica Olar, Chimie bioanorganică – biometale, Ed. Univ. Buc., 2001 (ISBN 973-575-617-X);
- Viviana Gaitanovici, Elena Mihaela Badea, Rodica Olar, Sistemul periodic de buzunar, Ed. Carminis Pitesti, 2001, (ISBN 973-8074-63-0);
- Elena Cristurean, Dana Marinescu, Ariana Antoniu, Rodica Olar, Mihaela Badea, Chimia metalelor, Ed. Univ. Buc., 1998, 2001 (ISBN 973-575-277-8);
- Dana Marinescu, Rodica Olar, Mihaela Badea, Bazele chimiei coordinative, Ed. Univ. Buc., 1995 (ISBN 973-575-054-6)

Conducere lucrări de licență și dizertație: 84

Conducere lucrări grad I: 19

Activitate științifică

Domeniul predominant de cercetare este „Chimie coordinativă - combinații complexe cu potențială activitate biologică (strategii de sinteză, caracterizare fizico-chimică și biologică, obținere de materiale cu proprietati speciale).

Contributiile originale și rezultatele importante obținute în urma cercetărilor efectuate se încadrează în următoarele direcții:

- obținerea și caracterizarea unor noi combinații complexe ale metalelor tranziționale prin reacții de substituție a liganzilor sau de condensare template;
- sinteza de combinații complexe cu activitate biologică și testarea acestora *in vitro* sau *in vivo*;
- obținere și caracterizarea unor combinații complexe cu liganzi polimerizabili sau policondensabili;
- metode neconvenționale pentru obținerea de nanomateriale din clasa oxizilor și sulfurilor simple și mixte;

Publicatii: 83 articole (indexate ISI, Anexa 1), 1 brevet de invenție (Anexa 2).

Participări la conferințe: 157

Proiecte de cercetare: contracte naționale; 1 în calitate de director, 12 în calitate de membru în echipă, contracte internaționale; 4 în calitate de membru în echipă.

Citari in reviste indexate ISI: 570

Indice Hirsch: 11 (Scopus)

**Experienta in evaluare per
review**

Referent științific la revistele: European Journal of Medicinal Chemistry, Journal of Thermal Analysis and Calorimetry, Biointerface Research in Applied Chemistry, Molecules, Pharmaceutical Biology, Nanoscale Research Letters, Serbian Journal of Chemistry, American Chemical Scientific Journal, Applied Organometallic Chemistry.

**Membră a unor
organizații profesionale**

- Membru al Societății de Chimie din România din 1997, Vicepresedinte sectia 1 SChR din 2015
- Membru al International Confederation for Thermal Analysis and Calorimetry (ICTAC) din 2004
- Membru al Central and Eastern European Committee for Thermal Analysis and Calorimetry (CEEC-TAC) din 2011
- Coordonator Departament Proiecte CEEC-TAC
- Membru National Organising Committee CEEC-TAC 1
- Membru Scientific Committee CEEC-TAC 2

**Anexa1
Anexa 2**

**Listă lucrări publicate
Listă brevete**

**Data,
14.12.2016**

Semnătura,

Listă lucrări publicate în reviste cotate ISI

1. Valentina Uivarosi, Mihaela Badea, Rodica Olar, Bruno Stefan Velescu, Victoria Aldea, Synthesis and characterization of a new complex of oxovanadium (IV) with naringenin, as potential insulinomimetic agent, *Farmacia* 64(2) (2016) 175-180.
2. Alexandra-Cristina Munteanu, Mihaela Badea, Rodica Olar, Luigi Silvestro, Constanța Dulea, Constantin-Daniel Negut, Valentina Uivarosi, Synthesis and Structural Investigation of New Bio-Relevant Complexes of Lanthanides with 5-Hydroxyflavone: DNA Binding and Protein Interaction Studies, *Molecules*, 21 (2016) 1737-1756.
3. Mihaela Badea, Cristina Bucur, Mariana Carmen Chifiriuc, Coralia Bleotu, Veronica Lazar, Dana Marinescu, Rodica Olar, Insight on thermal behavior of new complexes of Ni(II), Cu(II) and Zn(II) with a bismacrocyclic ligand as biological active species, *J. Therm. Anal. Calorim.*, (DOI 10.1007/s10973-016-5502-y).
4. Larisa Calu, Mihaela Badea, Romana Cerc Korošec, Peter Bukovec, Constantin C. Daniliuc, Mariana Carmen Chifiriuc, Luminița Măruțescu, Camelia Ciulică, Gina Șerban, Rodica Olar, Thermal behaviour of some novel biological active complexes with a triazolopyrimidine pharmacophore, *J. Therm. Anal. Calorim.*, (DOI 10.1007/s10973-016-5515-6).
5. Rodica Olar, Mihaela Badea, Marilena Ferbințeanu, Nicolae Stănică, Ionela Alan, Spectral, magnetic and thermal characterization of new Ni(II), Cu(II), Zn(II) and Cd(II) complexes with a bischelat Schiff base, *J. Therm. Anal. Calorim.*, (DOI 10.1007/s10973-016-5433-7).
6. Rodica Olar, Larisa Calu, Mihaela Badea, Mariana Carmen Chifiriuc, Coralia Bleotu, Bruno Velescu, Oana Stoica, Gabriela Ioniță, Nicolae Stănică, Luigi Silvestro, Constanța Dulea, Valentina Uivarosi, Thermal behaviour of some biologically active species based on complexes with a triazolopyrimidine pharmacophore, *J. Therm. Anal. Calorim.*, (DOI 10.1007/s10973-016-5425-7).
7. Rodica Olar, Ioana Dorina Vlaicu, Mariana Carmen Chifiriuc, Coralia Bleotu, Nicolae Stănică, Gina Vasile Scăețeanu, Luigi Silvestro, Constanța Dulea, Mihaela Badea, Synthesis, thermal analysis and biological characterisation of some new nickel (II) complexes with unsaturated carboxylates and heterocyclic N-donor ligands, *J. Therm. Anal. Calorim.*, (DOI 10.1007/s10973-016-5445-3).
8. Irina Zarafu, Mihaela Badea, Gabriela Ioniță, Petre Ioniță, Anca Păun, Marcela Bucur, Mariana Carmen Chifiriuc, Coralia Bleotu, Rodica Olar, Spectral, magnetic, thermal and biological studies on Ca(II) and Cu(II) complexes with a novel crowned Schiff base, *J. Therm. Anal. Calorim.*, (DOI 10.1007/s10973-016-5573-9).
9. Mihaela Badea, Rodica Olar, Luigi Silvestro, Martin Maurer, Valentina Uivarosi, Synthesis, spectral and thermal studies of the sodium salts of some Ru(III) complexes with quinolone antibiotics, *J. Therm. Anal. Calorim.*, (DOI 10.1007/s10973-016-5902-z).
10. Anca Dumbrava, Rodica Olar, Mihaela Badea, Catalin Maxim, Daniela Ghica, Marius Andruh, New coordination polymers with chromato bridges: $^1_{\infty}[\text{Ni}(\text{phen})(\text{H}_2\text{O})_2(\mu\text{-O}_2\text{CrO}_2)]$ and $^3_{\infty}[\text{Mn}(4,4'\text{-bipy})(\text{H}_2\text{O})(\mu\text{-O}_3\text{CrO})]\cdot\text{H}_2\text{O}$, *Inorg. Chim. Acta*, 426 (2015) 50–54; DOI.org/10.1016/j.ica.2014.11.009. Impact factor 2,041 (2014)
11. Larisa Calu, Mihaela Badea, Mariana Carmen Chifiriuc, Coralia Bleotu, Gabriela-Iulia David, Gabriela Ioniță, Luminița Măruțescu, Veronica Lazăr, Nicolae Stănică, Irina Soponaru, Dana Marinescu, Rodica Olar, Synthesis, spectral, thermal, magnetic and biological characterization of Co(II), Ni(II), Cu(II) and Zn(II) complexes with a Schiff base bearing a 1,2,4-triazole pharmacophore, *J. Therm. Anal. Calor.*, 120 (2015) 375–386; DOI 10.1007/s10973-014-3970-5. Impact factor 2,206 (2014)
12. Rodica Olar, Florentina Pătrașcu, Mariana Carmen Chifiriuc, Emilia Elena Iorgulescu, Coralia Bleotu, Luminița Măruțescu, Veronica Lazar, Dana Marinescu, Nicolae Stănică, Mihaela Badea, Insight on thermal, spectral, magnetic and biologic behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a pentaazamacrocyclic ligand derived from nicotinamide, *J. Therm. Anal. Calor.*, 118 (2014) 1159–1169; DOI 10.1007/s10973-014-3864-6. Impact factor 2,206 (2014)
13. Mihaela Badea, Florentina Pătrașcu, Romana Cerc Korošec, Peter Bukovec, Monica Raită, Mariana Carmen Chifiriuc, Luminița Măruțescu, Coralia Bleotu, Bruno Velescu, Dana Marinescu, Valentina Uivarosi, Rodica Olar, Thermal, spectral, magnetic and biologic characterization of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand bearing ketopyridine moieties, *J. Therm. Anal. Calor.*, 118 (2014) 1183–1193; DOI 10.1007/s10973-014-3857-5. Impact factor 2,206 (2014)
14. Mihaela Badea, Ioana Dorina Vlaicu, Rodica Olar, Madalina Constand, Coralia Bleotu, Mariana Carmen Chifiriuc, Luminița Măruțescu, Veronica Lazar, Maria Nicoleta Grecu, Dana Marinescu, Thermal behaviour and characterisation of new biologically active Cu(II) complexes with benzimidazole as main ligand, *J. Therm. Anal. Calor.*, 118 (2014) 1119–1133; DOI 10.1007/s10973-014-3745-z. Impact factor 2,206 (2014)
15. Mihaela Badea, Larisa Calu, Mariana Carmen Chifiriuc, Coralia Bleotu, Alexandra Marin, Sebastian Ion, Gabriela Ionița, Nicolae Stănică, Luminița Măruțescu, Veronica Lazar, Dana Marinescu, Rodica Olar, Thermal behaviour of some novel antimicrobials based on complexes with a Schiff base bearing 1,2,4-triazole pharmacophore, *J. Therm. Anal. Calor.*, 118 (2014) 1145–1157; DOI 10.1007/s10973-014-3821-4. Impact factor 2,206 (2014)

16. Rodica Olar, Gina Vasile Scaeteanu, Ioana Dorina Vlaicu, Luminita Marutescu, Mihaela Badea, Synthesis, physico-chemical characterization and thermal behavior of new complexes with N_4O_2 donor set, *J. Therm. Anal. Calor.*, 118 (2014) 1195–1202; DOI 10.1007/s10973-014-3809-0. Impact factor 2,206 (2014)
17. Cristina Bucur, Mihaela Badea, Mariana Carmen Chifiriuc, Coralia Bleotu, Emilia Elena Iorgulescu, Irinel Adriana Badea, Maria Nicoleta Grecu, Veronica Lazar, Oana-Irina Patriciu, Dana Marinescu, Rodica Olar, Studies on thermal, spectral, magnetic and biological properties of new Ni(II), Cu(II) and Zn(II) complexes with a bismacrocyclic ligand bearing an aromatic linker, *J. Therm. Anal. Calor.*, 115 (2014) 2179–2189; DOI 10.1007/s10973-013-3460-1. Impact factor 2,206 (2014)
18. Anca Dumbrava, Rodica Olar, Mihaela Badea, Maria Nicoleta Grecu, Florentina Patrascu, Luminita Marutescu, Nicolae Stanica, Synthesis and characterisation of Ni(II), Cu(II), and Zn(II) complexes with an acyclic Mannich base functionalized with thioglycolate moiety, *J. Therm. Anal. Calor.*, 115 (2014) 2447–2455; DOI 10.1007/s10973-013-3437-0 Impact factor 2,206 (2014)
19. Diana-Carolina Ilies, Elena Pahontu, Sergiu Shova, Rodica Georgescu, Nicolae Stanica, Rodica Olar, Aurelian Gulea, Tudor Rosu, Synthesis, characterization, crystal structure and antimicrobial activity of copper(II) complexes with a thiosemicarbazone derived from 3-formyl-6-methylchromone, *Polyhedron*, 81 (2014) 123–131.
20. Valentina Uivarosi, Mihaela Badea, Rodica Olar, Constantin Drăghici, Ștefania Felicia Bărbuceanu, Synthesis and characterization of some new complexes of magnesium (II) and zinc (II) with the natural flavonoid primuletin, *Molecules*, 18 (2013) 7631–7645; doi: 10.3390/molecules18077631
21. Cristina Bucur, Romana Cerc Korošec, Mihaela Badea, Larisa Calu, Mariana Carmen Chifiriuc, Nicoleta Grecu, Nicolae Stanică, Dana Marinescu, Rodica Olar, Investigation of thermal stability, spectral, magnetic and antimicrobial behavior for new complexes of Ni(II), Cu(II) and Zn(II) with a bismacrocyclic ligand, *J. Therm. Anal. Calor.*, 113 (2013) 1287–95; DOI: 10.1007/s10973-012-2913-3.
22. Florentina Pătrașcu, Mihaela Badea, Maria Nicoleta Grecu, Nicolae Stanică, Luminița Măruțescu, Dana Marinescu, Cezar Spînu, Cristian Tigae and Rodica Olar, Thermal, spectral, magnetic and antimicrobial behaviour of new Ni(II), Cu(II) and Zn(II) complexes with a hexaazamacrocyclic ligand, *J. Therm. Anal. Calor.*, 113 (2013) 1421–9; DOI: 10.1007/s10973-012-2898-x.
23. Ioana Dorina Vlaicu, Madalina Constand, Rodica Olar, Dana Marinescu, Maria Nicoleta Grecu, Veronica Lazar, Mariana Carmen Chifiriuc, Mihaela Badea, Thermal stability of new biologic active copper (II) complexes with 5,6-dimethylbenzimidazole, *J. Therm. Anal. Calorim.*, 113 (2013) 1369–77; DOI 10.1007/s10973-013-2948-z.
24. Ioana Dorina Vlaicu, Rodica Olar, Dana Marinescu, Veronica Lazar, Mihaela Badea, Physico-chemical and thermal characterisation of new Co(II) complexes with pyrazole derivatives, *J. Therm. Anal. Calorim.*, 113 (2013) 1337–43; DOI 10.1007/s10973-013-2945-2.
25. Ionela Alan, Angela Kriza, Mihaela Badea, Nicolae Stanica, Rodica Olar
Synthesis and characterization of Co(II), Ni(II), Zn(II) and Cd(II) complexes with 5-bromo-N,N'-bis-(salicylidene)-o-tolidine, *J. Therm. Anal. Calor.*, 111 (2013) 483–490; Doi: 10.1007/s10973-012-2249-y
26. Gina Vasile, Rodica Olar, Dana Marinescu, Angela Kriza, Luminita Marutescu, Mariana Carmen Chifiriuc, Mihaela Badea, Thermal study of new biologic active complexes with mixed ligands, *J. Therm. Anal. Calor.*, 111 (2013) 1783–1790; Doi: 10.1007/s10973-012-2317-3.
27. Mihaela Badea, Rodica Olar, Monica Ilis, Rodica Georgescu, Mirela Calinescu, Synthesis, characterization and thermal decomposition of new copper(II) complex compounds with clorhexidine, *J. Therm. Anal. Calor.*, 111 (2013) 1763–1770; Doi: 10.1007/s10973-012-2316-4.
28. Rodica Olar, Mihaela Badea, Monica Ilis, Ticuta Negreanu-Pirjol, Mirela Calinescu, Studies on thermal behavior of some copper(II) complex compounds with a dibiguanide ligand, *J. Therm. Anal. Calor.*, 111 (2013) 1189–1195; Doi: 10.1007/s10973-012-2227-4.
29. Larisa Calu, Rodica Olar, Mihaela Badea, Denisa Falcescu, Daria Duca, Dana Marinescu, Thermal study on complexes with Schiff base derived from 1,2,4-triazole as potential antimicrobial agents, *J. Therm. Anal. Calor.*, 111 (2013) 1725–1730; Doi: 10.1007/s10973-012-2201-1.
30. Mihaela Badea, Elica Iosub, Carmen Mariana Chifiriuc, Luminita Marutescu, Emilia Elena Iorgulescu, Veronica Lazar, Dana Marinescu, Coralia Bleotu, Rodica Olar, Thermal, spectral and antimicrobial characterization of Pd(II) complexes with ligands bearing biguanide moieties, *J. Therm. Anal. Calor.*, (2013), 111, 1753–1761, Doi: 10.1007/s10973-012-2288-4.
31. Mihaela Badea, Ana-Maria Crasanda, Mariana Carmen Chifiriuc, Luminita Marutescu, Veronica Lazar, Dana Marinescu, Rodica Olar, Synthesis, spectral and thermal study on new Fe(III) complexes with N,N-dimethylbiguanide as antibacterial agents, *J. Therm. Anal. Calor.*, 111 (2013) 1743–1751, Doi: 10.1007/s10973-012-2277-7.
32. Valentina Uivarosi, Mihaela Badea, Liviu Chirigiu, Victoria Aldea, Rodica Olar, Thermal and spectral studies of palladium(II) and platinum(IV) complexes with dithiocarbamate derivatives, *J. Therm. Anal. Calor.*, 111 (2013) 1177–1182, Doi: 10.1007/s10973-012-2315-5.

33. Ionela Alan, Angela Kriza Rodica Olar, Nicolae Stanica, Mihaela Badea, Spectral, magnetic and thermal characterisation of new Co(II), Ni(II) and Cu(II) complexes with Schiff base 5-bromo-N,N-bis-(salicylidene)-o-tolidine, *J. Therm. Anal. Calor.*, 111 (2013) 1163–1171, Doi: 10.1007/s10973-012-2273-y.
34. Rodica Olar, Andreea Dogaru, Mihaela Badea, Dana Marinescu, New vanadil complexes with metformin derivatives as potential insulin mimetic agents, *J. Therm. Anal. Calor.*, 110 (2012) 257–262, Doi: 10.1007/s10973-012-2274-x.
35. Cristina Bucur, Mihaela Badea, Calu Larisa, Dana Marinescu, Maria Nicoleta Grecu, Nicolae Stanica, Mariana Carmen Chifiriuc, Rodica Olar, Thermal behavior of some new complexes with decaaza bismacrocylic ligand as potential antimicrobial species, *J. Therm. Anal. Calor.*, 110 (2012) 235-241, Doi: 10.1007/s10973-012-2199-4.
36. Mihaela Badea, Rodica Olar, Valentina Uivarosi, Dana Marinescu, Victoria Aldea, Synthesis and characterization of some vanadyl complexes with flavonoid derivatives as potential insulin-mimetic agents, *J. Therm. Anal. Calor.*, 107 (2012) 279-285, DOI 10.1007/s10973-011-1413-0.
37. Mihaela Badea, Rodica Olar, Valentina Uivarosi, Dana Marinescu, Victoria Aldea, Stefania Felicia Barbuceanu, George Mihai Nitulescu, Thermal behavior of some vanadyl complexes with flavone derivatives as potential insulin-mimetic agents, *J. Therm. Anal. Calor.*, 105(2) (2011) 559-564 (DOI: 10.1007/s10973-010-1253-3).
38. Valentina Uivarosi, Mihaela Badea, Rodica Olar, Dana Marinescu, Teodor Octavian Niculescu, George Mihai Nitulescu, Thermal degradation behavior of some ruthenium complexes with fluoroquinolone derivatives as potential antitumor agents, *J. Therm. Anal. Calor.*, 105(2) (2011) 645-650 (DOI: 10.1007/s10973-010-1222-x).
39. Rodica Olar, Mihaela Badea, Dana Marinescu, Ramona Mardale, Thermal behaviour of new Cu(II) complexes with schiff bases functionalised with 1,3,5-triazine moieties as potential antibacterial agents, *J. Therm. Anal. Calor.*, 105(2) (2011) 553-557 (DOI: 10.1007/s10973-010-1132-y).
40. Rodica Olar, Mihaela Badea, Dana Marinescu, Larisa Calu, Cristina Bucur, Thermal behaviour of some new complexes with bismacrocylic ligands as potential biological active species, *J. Therm. Anal. Calor.*, 105(2) (2011) 571-575 (DOI: 10.1007/s10973-010-1226-6).
41. Rodica Olar, Mihaela Badea, Dana Marinescu, Carmen Chifiriuc, Coralia Bleotu, Nicoleta Grecu, Emilia Elena Iorgulescu, Marcela Bucur, Veronica Lazar, Adriana Finaru, Prospects for new antimicrobials based on N,N-dimethylbiguanide complexes as effective agents on both planktonic and adherent microbial strains, *Eur. J. Med. Chem.*, 45 (2010) 2868-2875 (DOI: 10.1016/j.ejmech.2010.03.009).
42. Rodica Olar, Mihaela Badea, Dana Marinescu, Carmen Chifiriuc, Coralia Bleotu, Nicoleta Grecu, Emilia Elena Iorgulescu, Veronica Lazar, N,N-Dimethylbiguanide complexes displaying low cytotoxicity as potential large spectrum antimicrobial agents, *Eur. J. Med. Chem.*, 45 (2010) 3027-3034 (DOI: 10.1016/j.ejmech.2010.03.033).
43. Rodica Olar, Mihaela Badea, Dana Marinescu, Emilia Elena Iorgulescu, Eliza Frunza, Veronica Lazar, Carmen Chifiriuc, Thermal, spectral and antimicrobial study on some Cu(II) complexes with ligands bearing biguanide moieties, *J. Therm. Anal. Calor.*, 99 (2010) 815-821 (DOI 10.1007/s10973-009-0414-8).
44. Rodica Olar, Mihaela Badea, Dana Marinescu, Thermal study of some new Ni(II) and Cu(II) complexes with ligands derived from N,N-dimethylbiguanide as potential antimicrobials, *J. Therm. Anal. Calor.*, 99 (2010) 893-898 (DOI 10.1007/s10973-009-0487-4). (Impact Factor 1,63 (2008))
45. E. Angelescu, R. Ionescu, O. D. Pavel, R. Zavoianu, R. Birjega, C. R. Lupulescu, M. Florea, R. Olar, Epoxidation of cyclohexene with O₂ and iso-butyraldehyde catalysed by Cobalt modified hydrotalcite, *J. Mol. Catal. A:Chemical*, 315 (2) (2010) 178-186. (Impact Factor 2,814 (2008))
46. Mihaela Badea, Rodica Olar, Dana Marinescu, Valentina Uivarosi, Victoria Aldea, Teodor Octavian Niculescu, Thermal stability of new vanadyl complexes with flavonoid derivatives as potential insulin-mimetic agents, *J. Therm. Anal. Calor.*, 99 (2010) 823-827 (DOI 10.1007/s10973-009-0387-7).
47. Mihaela Badea, Rodica Olar, Dana Marinescu, Valentina Uivarosi, Teodor Octavian Niculescu Daniela Iacob, Thermal study of some new quinolone ruthenium (III) complexes with potential cytostatic activity, *J. Therm. Anal. Calor.*, 99 (2010) 829-834 (DOI 10.1007/s10973-009-0479-4).
48. Valentina Uivarosi, Stefania Felicia Barbuceanu, Victoria Aldea, Corina-Cristina Arama, Mihaela Badea, Rodica Olar, Dana Marinescu, Synthesis, Spectral and Thermal Studies of New Rutin Vanadyl Complexes, *Molecules*, 15 (2010) 1578-1589; doi:10.3390/molecules15031578
49. Rodica Olar, Mihaela Badea, Dana Marinescu, Veronica Lazar, Carmen Chifiriuc, Thermal behaviour of new Ni(II) and Cu(II) complexes with macrocylic ligands functionalised with 1,2,4-triazole, *J. Therm. Anal. Calor.*, 97 (1) (2009) 315-321. (DOI: 10.1007/s10973-008-9650-6).
50. Rodica Olar, Mihaela Badea, Dana Marinescu, Veronica Lazar, Carmen Chifiriuc, New complexes of Ni(II) and Cu(II) with Schiff bases functionalised with 1,3,4-thiadiazole: spectral, magnetic, biological and thermal characterisation, *J. Therm. Anal. Calor.*, 97 (2009) 721-727 (DOI: 10.1007/s10973-009-0280-4)
51. Mihaela Badea, Rodica Olar, Dana Marinescu, Valentina Uivarosi, Daniela Iacob, Thermal decomposition of some biologically active complexes of ruthenium (iii) with quinolone derivatives, *J. Therm. Anal. Calor.*, 97 (2009) 735-739, (DOI 10.1007/s10973-009-0343-6).

52. Mihaela Badea, Rodica Olar, Dana Marinescu, Veronica Lazar, Carmen Chifiriuc, Gina Vasile, Thermal behaviour of new biological active cadmium mixed ligands complexes, *J. Therm. Anal. Calor.*, 97 (2009), 781-785, (DOI 10.1007/s10973-009-0344-5).
53. Mihaela Badea, Rodica Olar, Dana Marinescu, Gina Vasile, Bogdan Jurca, Augustin M. Madalan, Marius Andruh, A Michael-type reaction between acrylate ions and ethylenediamine coordinated to Ni(II). Synthesis, crystal structure and magnetic properties of $[\text{Ni}_2(\text{EDDP})_2(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O}$ (H_2EDDP = ethylenediamine-N,N-dipropionic acid), *Inorg. Chem. Comm.*, 12 (2009) 555–557.
54. Rodica Olar, Mihaela Badea, Maria Nicoleta Grecu, Dana Marinescu, Veronica Lazar, Carmen Balotescu, Thermal behavior, spectroscopic and biological characterization of copper(II) complexes with n,n-dimethylbiguanide, *J. Therm. Anal. Calor.*, 92 (1) (2008) 239-243.
55. Rodica Olar, Mihaela Badea, Oana Carp, Dana Marinescu, Veronica Lazar, Carmen Balotescu, Anca Dumbrava Synthesis, characterisation and thermal behaviour of some thiosulfato- and sulfato copper (II) complexes. Antibacterial activity, *J. Therm. Anal. Calor.*, 92 (1) (2008) 245-251.
56. Mihaela Badea, Rodica Olar, Dana Marinescu, Gina Vasile, Thermal behavior of some new triazole derivative complexes, *J. Therm. Anal. Calor.*, 92 (1) (2008) 209-214.
57. Mihaela Badea, Rodica Olar, Dana Marinescu, Gina Vasile, Thermal stability of new complexes bearing both acrylate and aliphatic amine as ligands, *J. Therm. Anal. Calor.*, 92 (1) (2008) 205-208.
58. V. V. Grecu, S. Constantinescu, Maria Nicoleta Grecu, Rodica Olar, Mihaela Badea, Rodica Turcu, Magnetic characterization of some nanometric iron oxides, *Hyperfine Interact.*, 183 (1-3) (2008) 205–214.
59. Rodica Olar, Mihaela Badea, Veronica Lazar, Carmen Balotescu, Elena Cristurean, Dana Marinescu, Thermal behaviour of some n,n-dimethylbiguanide derivatives displaying antimicrobial activity, *J. Therm. Anal. Calor.*, 88 (2007) 323-327.
60. Mihaela Badea, Rodica Olar, Dana Marinescu, E. Segal, A. Rotaru, Thermal stability of some new complexes bearing ligands with polymerizable groups, *J. Therm. Anal. Calor.*, 88 (2007) 317-321.
61. Rodica Olar, Mihaela Badea, Elena Cristurean, Carmen Parnau, Dana Marinescu, Thermal behaviour of new n,n-dimethylbiguanide complexes having selective and effective antibacterial activity, *J. Therm. Anal. Calor.*, 84(1)(2006) 53-58.
62. Mihaela Badea, Rodica Olar, Dana Marinescu, Gina Vasile, Thermal behavior of some new complexes bearing ligands with polymerisable groups, *J. Therm. Anal. Calor.*, 85 (2006) 285-288.
63. Carmen Parnau, Rodica Olar, Mihaela Badea, Angela Kriza, Thermal behavior of some new isatin complexes, *J. Therm. Anal. Calor.*, 86 (2006) 217-221.
64. Ana Emandi, Mihaela Badea, Rodica Olar, The effect of Er(III) on the thermal behavior of azo (-N=N-) and azomethynic (-CH=N-) chromophores, *J. Therm. Anal. Calor.*, 84 (2006) 601-5.
65. Rodica Olar, Mihaela Badea, N. Stanica, Elena Cristurean, Dana Marinescu, Synthesis, characterisation and thermal behaviour of some complexes with ligands having 1,3,4-thiadiazole moieties, *J. Therm. Anal. Calor.*, 82 (2005) 417-422.
66. Mihaela Badea, Rodica Olar, Gina Vasile, Ana Emandi, Veronica Pop, Dana Marinescu, Thermal behaviour of some new chromium complexes with potential biological importance, *J. Therm. Anal. Calor.*, 81 (2005) 273-276.
67. Rodica Olar, Mihaela Badea, Elena Cristurean, Veronica Lazar, Ramona Cernat, Carmen Balotescu, Thermal behavior spectroscopic and biological characterization of cobalt(II), zinc(II), palladium(II) and platinum(II) complexes with N,N-dimethylbiguanide, *J. Therm. Anal. Calor.*, 80 (2005) 451-455.
68. Rodica Olar, Mihaela Badea, Dana Marinescu, Monica Iorgulescu, Stefania Stoleriu, Synthesis, thermal behavior and spectroscopic characterization of nickel(II) complexes with ligands resulted in condensation of N,N-dimethylbiguanide and pentane-2,4-dione, *J. Therm. Anal. Calor.*, 80 (2005) 363-367.
69. Mihaela Badea, Rodica Olar, Dana Marinescu, Gina Vasile, Thermal behaviour of some new acrylate complexes as a criterion in their selection for further co-polymerization reaction, *J. Therm. Anal. Calor.*, 80 (2005) 683-685.
70. Mihaela Badea, Rodica Olar, Dana Marinescu, Gina Vasile, Stefania Stoleriu, Thermal stability of some new complex compounds with allylacetoacetate as ligand, *J. Therm. Anal. Calor.*, 80 (2005) 679-682.
71. Rodica Olar, Mihaela Badea, L. Diamandescu, Elena Cristurean, Dana Marinescu, Doina Mihaila-Tarabasanu, N. Stanica, Maria Brezeanu, Soft chemical synthesis and characterisation of some substituted ferrites, *J. Alloys Comp.*, 363 (2004) 257-262.
72. Mihaela Badea, Rodica Olar, Elena Cristurean, Dana Marinescu, Anca Emandi, Mirela Calinescu, Eugen Segal, Thermal stability of some azo-derivatives and their complexes. 2. New azo-derivative pigments and their Cu(II) complexes, *J. Therm. Anal. Calor.*, 77 (3) (2004) 815-824.
73. Mihaela Badea, Rodica Olar, Dana Marinescu, Ana Emandi, Veronica Pop and Gina Vasile, Complexes with acrylate ion as ligand. I. Polynuclear chromium (III) complexes, *Nonlinear Optics, Quantum Optics* 32 (1-3) (2004) 127-134.
74. Oana Carp, Luminita Patron, D. Visan, N. Dragan, Rodica Olar, Influence of Precursor on the thermally Induced Synthesis Dysprosium Manganite with Perovskite Structure, *J. Therm. Anal. Calor.*, 72 (2003) 253-261.

75. Oana Carp, Luminita Patron, A. Ianculescu, J. Pasuk, Rodica Olar, New Synthesis Routs for Obtaining Dysprosium Manganese Perovskite, *J. Alloys Compd.*, 351 (2003) 314-318.
76. Mihaela Badea, Ana Emandi, Dana Marinescu, Elena Cristurean, Rodica Olar, Ana Braileanu, P. Budrugaec, E. Segal, Thermal stability of some azo-derivatives and their complexes. 1. 1-(2-benzthiazolyl)-3methyl-4-azo-pyrazil-5-one derivatives and their Cu(II) complexes, *J. Therm. Anal. Calor.*, 72 (2003) 525-531.
77. Mihaela badea, Rodica Olar, Dana Marinescu, Cristurean Elena, Maria Brezeanu, Polynuclear complexes of chromium (III) and m(II) (M: Mn, Co, Ni, Zn) with thiourea, *Rev. Roum. Chim.*, 48 (12) (2003) 927.
78. Dana Marinescu, Rodica Olar, Claudia Maria Simonescu, Lucia Ivan, P. Grandclaudon, Aurelia Meghea, N. Stanica, Complexes with amides. Part 2. Synthesis, spectroscopic, magnetic and biological characterisation of Ni(II) and Cu(II) complexes with polyfunctional amides, *Rev. Roum. Chim.*, 47 (2002) 437-441.
79. Mihaela Badea, Rodica Olar, Elena Cristurean, Dana Marimescu, Maria Brezeanu, C. Calina-Soradi, E. Segal, Thermal stability and non-isothermal decomposition kinetics. Heteropolynuclear compounds of Cu(II), *J. Therm. Anal. Calor.*, 59 (2000) 977-984.
80. Mihaela Badea, rodica olar, elena cristurean, dana marinescu, maria brezeanu, marina balasoiu, E. Segal, Thermal stability of some coordination polynuclear coordination compounds in systems Ln(III) - Co(II) – oxalate, *J. Therm. Anal.*, 58(1) (1999) 103-111.
81. Mihaela Badea, Rodica Olar, Maria Brezeanu, Dana Marinescu, E. Segal, Thermal stability and non-isothermal kinetic study of three coordination compounds of Cu(II), *Thermochim. Acta*, 279 (1996) 183-190.
82. Maria Brezeanu, Rodica Olar, Aurelia Meghea, C. T. Supuran, 1,3,4-Thiadiazole derivatives. Part 5. Heteropolinuclear complexes of 2-amino-5-mercapto-1,3,4-thiadiazole, *Rev. Roum. Chim.*, 41 (1-2) (1996) 103-107.
83. Maria Brezeanu, Rodica Olar, C. T. Supuran, N. Stanica, Maria Stoicescu, 1,3,4 Thiadiazole derivatives. Part 6. Polinuclear complexes of 2-amino-5-mercapto-1,3,4-thiadiazole with Co(II) and Ni(II), *Rev. Roum. Chim.*, 41 (9-10) (1996) 681-685.
84. Rodica Olar, Dana Marinescu, Codrina Popescu, C. T. Supuran, 1,3,4-Thiadiazole derivatives. Part 7. Complexes of Pt(II) with some thiadiazole derivatives, *Rev. Roum. Chim.* 42 (2) (1997) 111-114.
85. C. T. Supuran, C. I. Lepadatu, Rodica Olar, Aurelia Meghea, Maria Brezeanu, 1,3,4-Thiadiazole derivatives. Part 4. Complexes of Cu(II) with 2-amino-5-mercapto-1,3,4-thiadiazole - a novel class of carbonic anhydrase inhibitors, *Rev. Roum. Chim.*, 38 (12) (1993) 1509-1517.

Lucrari publicate in proceeding

1. V. V. Grecu, S. Constantinescu, Maria Nicoleta Grecu, Rodica Olar, Mihaela Badea, Rodica Turcu, Magnetic characterization of some nanometric iron oxides, ICAME 2007, Springer Berlin Heidelberg (10.1007/978-3-540-78697-9).
2. Rodica Olar, Mihaela Badea, Elena Cristurean, Veronica Lazar, Ramona Cernat, Carmen Balotescu, „Combinaisons complexes du dimethylbiguanide avec Ni(II) et Cu(II). Synthese, caracterisation spectrale et biologique”, *Actes du troisieme colloque Franco-Roumain de chimie Appliquee*, Bacau, Romanie, 22-26 sept. (2004) 100-101.
3. Mihaela Badea, Rodica Olar, Dana Marinescu, Gina Vasile, Veronica Lazar, Ramona Cernat, Carmen Balotescu, Elena Iorgulescu, „Synthese et caracterisation spectrale et biologique de combinaisons thiosulfato complexes du Ni(II) ”, *Actes du troisieme colloque Franco-Roumain de chimie Appliquee*, Bacau, Romanie, 22-26 sept. (2004) 592-594.
4. Rodica Olar, Mihaela Badea, Adriana Fânaru, Maria Nicoleta Grecu, Emilia Elena Iorgulescu, Dana Marinescu, „Combinaisons complexes avec des ligands macrocycliques obtenus lors de la condensation de l' ethylenediamine avec tyrosine et la formaldehyde”, *Actes du troisieme colloque Franco-Roumain de chimie Appliquee*, Bacau, Romanie, 22-26 sept. (2004) 645-648.
5. Rodica Olar, Mihaela Badea, Irina Zarafu, Elena Cristurean, Dana Marinescu, „1,2,4-triazoles-1,3,5-trisubstitues. Proprietes coordinatives et stabilite thermique”, *Actes du troisieme colloque Franco-Roumain de chimie Appliquee*, Bacau, Romanie, 22-26 sept. (2004) 649-652.
6. Elena Cristurean, Dana Marinescu, Rodica Olar, Mihaela Badea, N. Stanica, Ana Emandi, Maria Brezeanu, „Magnetic and morphologic characterisation of some substituted ferrites synthesised by a non-conventional method” *Organic Nanophotonics* (2003) 163-168.
7. Rodica Olar, Mihaela Badea, Elena Cristurean, Dana Marinescu, Lucia Ivan, Irina Zarafu, Anca Arnautu, Aurelia Meghea, N. Stanica, „Combinaisons du Co(II, III), Cu(II) et Zn(II) avec des ligands obtenus lors de la condensation des polyamines avec l'acide barbiturique et la formaldehyde”, *Colloque Franco-Roumain de chimie appliquee „COFrRoCA – 2002”*, Bacau, Roumanie, 10-12 oct. (2002) 35-40.
8. Ralu Divan, Maria Brezeanu, Ileana Cernica, Rodica Olar, „Metallic thin films by photodecomposition of new inorganic precursors: Azide complexes”, *Proceedings of the International Semiconductor Conference, CAS.*, vol. 1 (1999) 213-216.

Data,
14.12.2016

Semnătura,

Anexa 2

Lista brevete

1. Compuși de oxovanadiu (IV) cu flavanone, procedeu de obținere și utilizare terapeutică (OSIM 126184/29.11.2013).