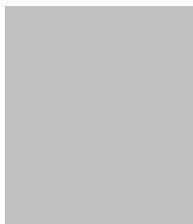


## INFORMAȚII PERSONALE



## GAINA IOANA LUIZA

 Arany Janos 11, Cluj-Napoca, Romania

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 <http://chem.ubbcluj.ro/~hetorgmet/>

Naționalitatea Româna

## EXPERIENȚA PROFESIONALĂ

2016-prezent

**Conferentiar Universitar**

Universitatea Babes-Bolyai Cluj-Napoca,  
Facultatea de Chimie si Inginerie Chimica, Departamentul de Chimie  
str. Arany Janos nr. 11 RO-400028, Cluj-Napoca  
<http://www.chem.ubbcluj.ro/~chimie/personal.html>

- Activitate didactica la nivel licenta: Chimia si Tehnologia Antidaunatorilor si Colorantilor (curs, laborator, proiect), Materiale de uz alimentar (curs).
- Activitate didactica la nivel master: Strategii Ecologice de Sinteza Organica si Organometalica(curs, laborator), Precursori organici si organometalici pentru materiale (un modul de 7 cursuri si laborator).
- Activitate de cercetare Coloranti functionali. Sinteza organica prin metode ecologice (microunde, ultrasunete). Analiza structurala prin spectroscopie RMN (<sup>1</sup>H-RMN, <sup>13</sup>C-RMN, COSY, NOE, HMBC, HMQC), spectrometrie de masa, spectroscopie UV-Vis si fluorescenta in lichid si solid..

Tipul sau sectorul de activitate Cercetare stiintifica, Educatie si formare

2005-2016

**Lector Universitar**

Universitatea Babes-Bolyai Cluj-Napoca,  
Facultatea de Chimie si Inginerie Chimica, Departamentul de Chimie  
str. Arany Janos nr. 11 RO-400028, Cluj-Napoca  
<http://www.chem.ubbcluj.ro/~chimie/personal.html>

- Activitate didactica la nivel licenta:Tehnologia Antidaunatorilor (curs, laborator, seminar), Chimia si Tehnologia Antidaunatorilor si Colorantilor (curs, laborator, proiect), Chimie Verde (curs, laborator), Materiale de uz alimentar (curs, laborator, proiect), Efecte biologice si proprietati ale compusilor organometalici (curs laborator), Compusi Organometalici in Sinteza Organica (curs, seminar laborator), Chimie organica I (laborator, seminar), Chimie organica II (laborator, seminar), Curs practic de Chimie Organica, Arome si aromatizanti naturali (laborator).
- Activitate didactica la nivel master: Calitatea si Siguranta Ambalajelor alimentare (curs, seminar) Compusi Organometalici in mediu (curs, seminar, laborator), Strategii Ecologice de Sinteza Organica si Organometalica(curs, laborator), Precursori organici si organometalici pentru materiale (un modul de 7 cursuri si laborator), Chimie Verde (curs, laborator).
- Activitate de cercetare Design de metode ecologice pentru sinteza organica. Sinteza clasica sau in camp de microunde de derivati heterociclici, derivati organometalici, compusi organici cu fosfor si complexi metalici. Analiza structurala prin spectroscopie RMN (<sup>1</sup>H-RMN, <sup>13</sup>C-RMN, COSY, NOE, HMBC, HMQC), spectrometrie de masa, spectroscopie UV-Vis si fluorescenta in lichid si solid, studii electrochimice de voltametrie ciclica.

Tipul sau sectorul de activitate Cercetare stiintifica, Educatie si formare

2001 -2005

**Asistent Universitar**

Universitatea Babes-Bolyai Cluj-Napoca,  
Facultatea de Chimie si Inginerie Chimica, Catedra de Chimie Organica

- Activitate didactica la nivel licenta:Tehnologia Antidaunatorilor (laborator, seminar), Compusi Organometalici in Sinteza Organica (seminar, laborator), Chimie organica I (laborator seminar), Chimie organica II (laborator seminar).
- Activitate de cercetare in sinteza clasica sau in camp de microunde a derivatilor heterociclici. Analiza structurala prin spectroscopie RMN (<sup>1</sup>H-RMN, <sup>13</sup>C-RMN, COSY, NOE, HMBC, HMQC), spectrometrie de masa, spectroscopie UV-Vis, studii electrochimice de voltametrie ciclica.

Tipul sau sectorul de activitate Cercetare stiintifica, Educatie si formare

1996 -2001

**Doctorand cu frecventa**

Universitatea Babes-Bolyai Cluj-Napoca,

- Cercetare in domeniul sintezei, caracterizarii structurale si investigarea proprietatilor electronice ale derivatilor heterociclici cu unitati fenotiazinice.
- Activitate didactica: Chimie Organica I,II (laborator), Compusi organometalici in sinteza organica (laborator) .

**Tipul sau sectorul de activitate** Cercetare stiintifica, Educatie si formare

1995 -1996

**Asistent cercetare**Centrului de Cercetare-Dezvoltare pentru Biostimulatori „Bois“ (CCDB. BIOS) Cluj-Napoca  
Str. Fantanele 30, RO-400750, Cluj-Napoca, Romania

- Activitate de cercetare si documentare in domeniul sintezei de compusi heterociclici biologic activi.

**Tipul sau sectorul de activitate** Cercetare stiintifica**EDUCAȚIE ȘI FORMARE**

1996-2001

**Doctor in Chimie**

Universitatea Babes-Bolyai Cluj-Napoca

Titlul tezei de doctorat: Sinteza de noi derivati fenotiazinici precursori in sinteza de materiale cu proprietati fizice neconventionale.

- Cursuri aferente programului doctoral:  
Analiza structurala organica RMN, MS, UV-VIS, FT-IR,  
Reactii si Mecanisme de Reactie in Chimia Organica
- Abilitati dobandite: Abilitatea de a elabora strategiile de sinteza dupa o documentare exhaustiva si analiza obiectiva a datelor si a facilitatilor materiale. Capacitatea de a realiza sinteze organice prin metode moderne clasic/microunde. Caracterizarea structurala complexa un compus organic /organometalic prin metode spectroscopice si spectrometrice (<sup>1</sup>H-RMN, <sup>13</sup>C-RMN, COSY, NOE, HMBC, HMQC, UV-VIS, FT-IR, SM).

1994-1995

**Studii aprofundate**Universitatea Babes-Bolyai Cluj-Napoca,  
Facultatea de Chimie si Inginerie Chimica,  
Specializarea: Chimia Heterociclicurilor

Titlul lucrarii de dizertatie: Baze Schiff- și 1,3-oxazolidine derivati ai p-nitrofenilserinolului.

- Materii studiate: Chimia derivatilor Heterociclici, Stereochimie, Chimie Organica Avansata, Mecanisme de Reactie in Chimia Organica, Analiza Retrosintetica Organica, Compusi Organometalici.
- Abilitati acumulate: Utilizarea si analiza conceptelor si teoriilor avansate din domeniul chimiei. Efectuarea de experimente cu grad de dificultate ridicat, aplicarea riguroasa a metodelor de analiza si interpretarea rezultatelor. Utilizarea metodelor si aparaturii specifice sintezei si caracterizarii heterociclicurilor saturate precum si analiza stereochemiei acestora prin spectroscopie RMN.

1989-1994

**Licenta in Inginerie Chimica**Universitatea Babes-Bolyai Cluj-Napoca,  
Facultatea de Chimie si Inginerie Chimica,  
Specializarea: Tehnologia Substantelor Organice.

Titlul lucrarii de licenta: Procesul tehnologic de obtinere a p-nitroacetofenonoximei, precursor in sinteza cloramfenicolului.

- Materii studiate: Matematica, Fizica, Chimie anorganica, Chimie organica, Chimie analitica, Electrochimie, Chimie fizica, Cinetica, Tehnologia substantelor anorganice, Tehnologia substantelor organice, Tehnologia antidaunatorilor, Coloranti, Tehnologia medicamentelor, si discipline de inginerie chimica.
- abilitati acumulate: Exploatarea instalatiilor din industriile de profil. Capacitatea de a elabora o tehnologie pentru obtinerea unui compus organic si a de proiecta utilaje cheie. Conceptia si prezentarea unui proiect in conditii de autonomie, cu asistenta calificata.

## COMPETENTE PERSONALE

Limba(i) maternă(e) Romana

## Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	C1	C1	B2	B2	C1

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat  
Cadru european comun de referință pentru limbi străine

## Competențe de comunicare

Stabilirea de contacte cu cadre didactice și specialiști (profesori, doctoranzi studenți) din diferite universități europene în timpul conferințelor internaționale, stagiilor de cercetare sau mobilităților Erasmus.

## Competențe organizaționale/manageriale

- Competențe de coordonare  
Coordonator Erasmus pentru Facultatea de Chimie și Inginerie Chimică din 2002  
Coordonare lucrări de diplomă și dizertație peste 60.
- Competențe de organizare și management al activității  
Director de proiect de cercetare CNCSIS cod 612/2001-2002, 42/2003, 47/2005-2007, responsabil de proiect CEEX-D11-80/2005, Proiect Bilateral Academia Română Academia Națională de Științe a Republicii Belarus AR-FRBCF-2016-2017
- Self management  
Capacitate de organizare a propriilor responsabilități și activități în cadrul proiectelor de cercetare precum și a activităților didactice

## Competențe dobândite la locul de muncă

- Competențe didactice  
Predare cursuri, seminarii și laboratoare, evaluare cunoștințe acumulate
- Competențe în valorificarea rezultatelor științifice  
Redactare manuscrise pentru publicare în reviste cotate ISI,
- Capacitatea de consiliere a studenților pentru dezvoltarea carierei dobândită prin coroborarea informațiilor oferite de studenți cu evaluările făcute pe parcursul examenelor, seminariilor, laboratoarelor și proiectelor.
- capacitate de adaptare la mediu multicultural.  
Participarea în proiecte de cercetare având parteneri universități din Germania, Ungaria, Ucraina, Republica Belarus. Predarea de cursuri în mobilități Erasmus și în programul Stability Pact for South Eastern Europe (SOE sponsored by DAAD Germany) .

## Competențe informatice

- O bună cunoaștere a instrumentelor Microsoft Office™, Programe științifice de editare și prelucrare de date, Origin, ChemDraw, Spartan, MestReNova

## Permis de conducere

- B

## INFORMATII SUPLIMENTARE

## Burse si stagii de cercetare

01/04/2000-30/06/2000  
01/06/2003-01/07/2003

Bursa CEEPUS Polonia, University Kielce, Department of Organic Chemistry, Prof. Dr. Danuta Rasala  
Bursa CEEPUS Slovacia, University SS. Cyril and Methodius Trnava, Prof. Dr. A. Krutoshicova

01/08/2003-31/10/2003  
01/08/2004-05/11/2004

Stagiu de Cercetare Ungaria, Eotvos Lorand University/Faculty of Science/ Department of Inorganic Chemistry, Prof. Dr. Pall Sohar

17/08/2007-02/09/2007

Stagiu de cercetare Belgia, Gent University, Department of Inorganic and Physical Chemistry, prof. F. Verpoort

15/07/2010-17/08/2010  
06/08/2012-20/08/2012

Stagiu de cercetare Germania, University Leipzig, Department of Chemistry and Mineralogy, Institute of Inorganic Chemistry, Prof. Dr. Evamarie Hey-Hawkins

23/06/2011-06/08.2011  
29/07/2013-02/08/2013  
04.08.2014-15.08.2014

Erasmus staff training Germania, University Leipzig, Department of Chemistry and Mineralogy, Institute of Inorganic Chemistry, Prof. Dr. Evamarie Hey-Hawkins

24/11/2013-29/11/2013

Stagiu cercetare Ss. Cyril and Methodius University of Skopje-Macedonia, Stability Pact for South Eastern Europe sponsored by Germany

19/09/2016-23/09/2016

Erasmus staff training Ungaria, Szent István University, Faculty of Food Science, Department of Food Chemistry and Nutrition, Prof. Dr Livia Simon Sarkadi, DSc

08.08.2016-12.08.2016

Erasmus staff training Germania, University Leipzig, Department of Chemistry and Mineralogy, Institute of Inorganic Chemistry, Prof. Dr. Evamarie Hey-Hawkins

04/05/2017-14/05/2017  
13/05/2017-18/05/2017

Erasmus staff training, Universitatea de stat Moldova, Faculty of Chemistry and Chemical Technology  
Erasmus staff training, Kuala Lumpur University, Malaysian Institute of Chemical and Bio-Engineering Technology (UniKL MICET)

21/05/2017-27/05/2017

Erasmus staff training, Yuriy Fedkovych Chernivtsi National University, Institute of Chemistry

## Cursuri/Seminarii

13/10/2009-16.10.2009

Prelegere "Microwave assisted organic chemistry", Babes-Bolyai University, Cluj-Romania, Stability Pact for South Eastern Europe sponsored by DAAD Germany

14/10/2010-16.10.2010

Prelegere "Materials for food industry" Babes-Bolyai University, Cluj-Romania, Stability Pact for South Eastern Europe sponsored by DAAD Germany

16/03/2011-19.03/2011

Curs "Organic synthesis following the Green chemistry principles" Ss. Cyril and Methodius University of Skopje-Macedonia, program Stability Pact for South Eastern Europe sponsored by DAAD Germany

29/09/2013-05/10/2013

Erasmus mobilitate de predare, Microwave in organic synthesis; Ungaria, Eotvos Lorand University/Faculty of Science, Institute of Chemistry, Assoc. Prof. dr. Gabor Dibo

08.09.2014-12.09.2014

Erasmus mobilitate de predare Food Packaging; Ungaria, Corvinus University, Faculty of Food Science, Prof. dr. Livia Simon Sarkadi

03.08.2015-07.08.2015

Erasmus mobilitate de predare, Microwave synthesis in dry media: advantages and limitations. Germania, University Leipzig, Department of Chemistry and Mineralogy, Institute of Inorganic Chemistry, Prof. Dr. Evamarie Hey-Hawkins.

23.09.2015-29.09.2015

Erasmus mobilitate de predare, Microwave assisted condensation reactions. Ungaria, Eotvos Lorand University/Faculty of Science, Department of General Chemistry, Prof. Dr. Csampai Antal

01.09.2016-05.09.2016

Curs Precursors for Optical Materials and Devices in cadrul: MatCatNet Workshop "From Molecules to Functionalised Materials" and Scientific module "Optical and Electronic Devices" Ohrid, Macedonia. Program Stability Pact for South Eastern Europe sponsored by DAAD Germany

04/05/2017-14/05/2017

Erasmus mobilitate de predare. Germania, University Leipzig, Department of Chemistry and Mineralogy, Institute of Inorganic Chemistry, Prof. Dr. Evamarie Hey-Hawkins.

## Afiliari

Societatea Romana de Chime  
Societatea Romana de Inginerie Chimica

## ANEXE

▪ Anexa 1 Lista Proiecte de Cercetare

## Lista Publicatii Stiintifice

- 46.** Propolis as a green corrosion inhibitor for bronze in weakly acidic solution. S.Varvara, R. Bostan, O. Bobis, **L. Gaina**, F. Popa, V. Mena, R. M. Souto. *Applied Surface Science*, 2017, 426C, 1100-1112, DOI: 10.1016/j.apsusc.2017.07.230
- 45.** Protective effect of inhibitor-containing nitrocellulose lacquer on artificially patinated bronze. R. Bostan, S. Varvara, **L. Găină**, T. Petrisor Jr., L. M. Mureșan, *Progress in Organic Coatings*, **2017**, 111C, 416-427, doi.org/10.1016/j.porgcoat.2016.08.004
- 44.** Novel Thiazolo[5,4-b]phenothiazine Derivatives: Synthesis, Structural Characterization, and In Vitro Evaluation of Antiproliferative Activity against Human Leukaemia. B.s Brem, E. Gal, **L. Găină**, L. Silaghi-Dumitrescu, E. Fischer-Fodor, C. I. Tomuleasa, A. Grozav, V. Zaharia, L. Filip, C. Cristea. *Int. J. Mol. Sci.* **2017**, 18(7), 1365; doi:10.3390/ijms18071365
- 43.** Cytotoxicity and Antioxidant Potential of Novel 2-(2-((1H-indol-5yl)methylene)-hydrazinyl)-thiazole Derivatives. A. Grozav, I.D. Porumb, **L. Gaina\***, L. Fililip, D. Hanganu. *Molecules*, **2017**, 22(2), 260. DOI: 10.3390/molecules22020260
- 42.** Enhanced one- and two-photon excited fluorescence of cationic (phenothiazinyl)vinyl-pyridinium chromophore attached to polyelectrolyte-coated gold nanorods. A.M. Craciun, M. Focsan, **L. Gaina**, S. Astilean. *Dyes and Pigments* **2017**, 136, 24-30. DOI: 10.1016/j.dyepig.2016.08.033
- 41.** Novel 1,9-diacyl-5-(phenothiazinyl)dipyrromethane dialkyltin complexes. B. Brem, E. Gal, **L. Gaina**, T. Lovasz, E.A. Molnar, D. Porumb, C. Cristea. *Studia Universitatis Babes-Bolyai Chemia* 2016, 61(3), 73-80
- 40.** The influence of bonding topology on the electronic properties of new Schiff bases containing phenothiazine building blocks, E.Gal, **L. Gaina**, C. Cristea, V. Munteanu, L. Silaghi-Dumitrescu. *Journal of Electroanalytical Chemistry*. **2016**, 770, 14-22. doi.org/10.1016/j.jelechem.2016.03.019 **IF 2.729**
- 39.** Metallo complexes of meso-phenothiazinylporphyrins: Synthesis, Linear and nonlinear optical properties B. Brem, E. Gal, **L. Gaina**, C. Cristea, A M Gabudean S. Astilean, L. Silaghi-Dumitrescu *Dyes and Pigments* **2015**, 123, 386-395. doi.org/10.1016/j.dyepig.2015.08.021 **IF 3.966**
- 38.** Synthesis of new benzothiazolyl-phenothiazine derivatives  
B. Brem, E. Gal, C. Cristea, **L. Gaina**, A. Grozav, V. Zaharia, L. Silaghi-Dumitrescu, *Studia Universitatis Babes-Bolyai Chemia*, **2015**, 60(2), 371-378. **IF 0.191**
- 37.** Assessments of electronic properties in phenothiazine carbaldehyde regioisomers series. B. Brem, E. Gal, T. Lovasz, C. Cristea, **L. Gaina**, L. Silaghi-Dumitrescu, *Studia Universitatis Babes-Bolyai Chemia*, **2015**, 60(2), 271-279. **IF 0.191**
- 36.** I. H. Filip, E. Gál, I. Lupan, M. Perde-Schrepler, P. Lönnecke, M. Surducun, **L. I. Găină**, E. Hey-Hawkins and L. Silaghi-Dumitrescu, Tuning the coordination properties of phenothiazine by regioselective introduction of diphenylphosphanyl groups, *Dalton Trans.*, **2015**, 44, 615–629. DOI: 10.1039/c4dt02665a **IF 4.197**
- 35.** Ileana Rotaru, Simona Varvara, **Luiza Gaina**, Liana Maria Muresan, Antibacterial drugs as corrosion inhibitors for bronze surfaces in acidic solutions *Applied Surface Science* **2014**, 321, 188–196. doi.org/10.1016/j.apsusc.2014.09.201, **IF 2.711**
- 34.** Adriana Grozav, **Luiza Ioana Găină\***, Valentina Pileczki, Ovidiu Crisan, Luminita Silaghi-Dumitrescu, Bruno Therrien, Valentin Zaharia, Ioana Berindan-Neagoe. The Synthesis and Antiproliferative Activities of New Arylidene-Hydrazinyl-Thiazole Derivatives, *Int. J. Mol. Sci.* **2014**, 15(12), 22059-22072. doi: 10.3390/ijms151222059, **IF 2.862**
- 33.** Synthesis of novel (phenothiazinyl)dipyrrolylmethanes. B. Brem, E. Gal, **L. Gaina**, C. Cristea, L. Silaghi-Dumitrescu, *Revue Roumaine de Chimie*, **2014**, 59(11-12), 947-952. **IF 0.311**
- 32.** H. I. Petkes, E. Gal, **L. Gaina**, M. Sabou, C. Majdik, L. Silaghi Dumitrescu, Synthesis and antibacterial properties of new phenothiazinyl- and phenyl-nitrones, *Comptes Rendus Chimie*, **2014**, 17 1050–1056, doi.org/10.1016/j.crci.2013.12.011. **IF: 1.713**
- 31.** Varvara Simona, Bostan Roxana, **Gaina Luiza**, Muresan Liana. Thiadiazole derivatives as inhibitors for acidic media corrosion of artificially patinated bronze. *Materials and Corrosion*, **2014**, 64, No. 9999. DOI: 10.1002/maco.201307072. **IF: 1.373**
- 30.** **Luiza Gaina**, Ioana Torje, Emese Gal, Alexandru Lupan, Cristina Bischin, Radu Silaghi-Dumitrescu, Grigore Damian, Peter Lönnecke, Castelia Cristea, Luminita Silaghi-Dumitrescu, Microwave assisted synthesis, photophysical and redox properties of phenothiazinyl-vinyl-pyridinium dyes, *Dyes and Pigments* **2014**, 102, 1-11. DOI 10.1016/j.dyepig.2013.10.044 **IF: 3.966**
- 29.** Emese Gal, Balazs Brem, Iani Pereteanu, **Luiza Gaina**, Tamas Lovasz, Maria Perde-Schrepler, Laura Silaghi-Dumitrescu, Castelia Cristea, Luminita Silaghi-Dumitrescu

Novel Meso-Phenothiazinyl-Porphyrin Dyes: Synthesis, Optical, Electrochemical Properties and PDT assay. *Dyes and Pigments*, **2013**, 99, 144-153, doi.org/10.1016/j.dyepig.2013.04.034 **IF: 3.966**

**28. Luiza I. Gaina**, Larisa N. Mataranga-Popa, Emese Gal, Paul Boar, Peter Lonneck, Evamarie Hey-Hawkins, Cristina Bischin, Radu Silaghi-Dumitrescu, Iulia Lupan, Castelia Cristea, Luminita Silaghi-Dumitrescu. Microwave-assisted Catalytic Amination of Phenothiazine – Reliable Access to Phenothiazine Analogues of Tröger's Base. *European Journal of Organic Chemistry*, **2013**, 24, 5500–5508, DOI: 10.1002/ejoc.201300480, **IF: 3.065**

**27. Adriana Ignat (Grozav)\*, Luiza Gaina\***, Victor Kuete, Thomas Efferth, Luminita Silaghi-Dumitrescu, Valentin Zaharia. Microwave-Assisted Synthesis of New Selenazole Derivatives with Antiproliferative Activity, *Molecules* **2013**, 18, 4679-4688. doi:10.3390/molecules18044679. **IF: 2.416**

**26. Bostan Roxana, Varvara Simona, Gaina Luiza**, Muresan Liana. Evaluation of some phenothiazine derivatives as corrosion inhibitors for bronze in weakly acidic solution. *Corrosion Science*, **2012**, 63, 275-286, DOI: 10.1016/j.corsci.2012.06.010, **IF: 4.422**

**25. Gaina Luiza**, Gal Emese, Mataranga-Popa Larisa, Porumb Dan, Nicolescu Alina, Cristea Castelia, Silaghi-Dumitrescu Luminita. Synthesis, structural investigations, and DFT calculations on novel 3-(1,3-dioxan-2-yl)-10-methyl-10H-phenothiazine derivatives with fluorescence properties. *Tetrahedron*, **2011**, 68(11), 2465-2470, DOI: 10.1016/j.tet.2012.01.068, **IF: 2.641**

**24. Dan Porumb, Tamas Lovasz, Gratiana Rachitã, Castelia Cristea, Luiza Gaina** and Luminita Silaghi-Dumitrescu. Walking on the surface of phenothiazines: a combined experimental and theoretical approach. *Revue Roumaine de Chimie*, **2010**, 55(11-12), 879-884. **IF: 0.311**

**23. Gaina Luiza**, Porumb Dan, Silaghi-Dumitrescu Ioana, Cristea Castelia, Silaghi-Dumitrescu Luminita. On the microwave-assisted synthesis of acylphenothiazine derivatives - Experiment versus theory synergism. *Canadian Journal of Chemistry-Revue Canadienne de Chimie*: **2010**, 88(1), 42-49. https://doi.org/10.1139/V09-163 **IF: 1.061**

**22. Gaina Luiza**, Dallos Timea, Cristea Cristea, Lovasz Tomas, Pereteanu Iani, Surducun Mihai, Silaghi-Dumitrescu Luminita. Microwaves assisted *N*-alkylation of phenothiazine. *Studia Universitatis Babes-Bolyai Chemia*, **2010**, 55(2), 97-102. **IF: 0.191**

**21. Lovasz Tamas, Gal Emese, Gaina Luiza**, Sas Ioana, Cristea Castelia, Silaghi-Dumitrescu, Luminita. Synthesis and characterization of new phenothiazinyl-diphenyl-phosphines. *Studia Universitatis Babes-Bolyai Chemia*, **2010**, 55(3), 249-256. **IF: 0.191**

**20. Gal Emese, Gaina Luiza**, Cristea Castelia, Silaghi-Dumitrescu Luminita, Microwaves assisted cycloaddition reactions of unsaturated phenothiazine derivatives. *Studia Universitatis Babes-Bolyai Chemia*, **2010**, 55(3), 257-263. **IF: 0.191**

**19. Gal Emese, Gaina Luiza**, Lovasz Tomas, Cristea Cristea, Silaghi-Dumitrescu Luminita, Synthesis and fluorescence properties of new Schiff bases containing phenothiazine units. *Studia Universitatis Babes-Bolyai Chemia*, **2009**, 54(4), 17-24. **IF: 0.191**

**18. Gaina Luiza**, Surducun Mihai, Cristea Castelia, Silaghi-Dumitrescu Luminita, Microwave-assisted synthesis of phenothiazine sulfoxide derivatives. *Studia Universitatis Babes-Bolyai Chemia*, **2009**, 54(2), 65-71. **IF: 0.191**

**17. Indolean Cerasela, Gaina Luiza**, Majdik Comelia. *N*-Alkylation of acridone by means of microwave irradiations without solvent. *Studia Universitatis Babes-Bolyai Chemia*, **2009**, 54(2), 95-97. **IF: 0.191**

**16. Gaina Luiza**, Iftimia Andreea, Surducun Mihai, Cristea Castelia, Silaghi-Dumitrescu Luiza, Sonochemical synthesis of some chalconetricarbonyliron(0) complexes. *Studia Universitatis Babes-Bolyai Chemia*, **2008**, 53(4), 35-41. **IF: 0.191**

**15. Gaina Luiza**, Cristea Castelia, Moldovan Claudia, Porumb Dan, Surducun Emanoil, Deleanu Calin, Mahamoud Abdalah, Barbe Jacques, Silberg Ioana. Microwave-assisted synthesis of phenothiazine and quinoline derivatives. *International Journal of Molecular Sciences*, **2007**, 8(2), 70-80. DOI 10.3390/i8020070 **IF 2.862**

**14. Cristea C, Cormos G, Gaina L**, Silaghi-Dumitrescu L, Gligor D, Muresan L, Popescu IC, Microwave-assisted synthesis and electrochemical behaviour of phenothiazine-formaldehyde polymer derivative *Studia Universitatis Babes-Bolyai Chemia*, **2007**, 52(4), 21-29. **IF: 0.191**

**13. Lovasz T, Oltean G, Toma AM, Gaina L**, Silaghi-Dumitrescu L, Jitaru M, Cristea C, Sohar P, Csampai A, Electronic properties of chalcones containing phenothiazine units *Studia Universitatis Babes-Bolyai Chemia*, **2007**, 52(4), 31-37. **IF: 0.191**

**12. The formylation of bis-(*N*-alkyl-phenothiazinyl)-methane; A theoretical approach** Porumb D, Silaghi-Dumitrescu I, Gaina L, Silaghi-Dumitrescu L, Cristea C, Cormos G, *Studia Universitatis Babes-Bolyai Chemia*, **2007**, 52(4), 39-42. **IF: 0.191**

**11. Gaina Luiza**, Csampai Antal, Turos Gyoergy, Lovasz Tamas, Zsoldos-Mady Virag, Silberg Ioana, Sohar Pal. (E)-3-(2-Alkyl-10H-phenothiazin-3-yl)-1-aryprop-2-en-1-ones: preparative, IR, NMR and DFT study on their substituent-dependent reactivity in hydrazinolysis and sonication-assisted oxidation with copper(II) nitrate. *Organic & Biomolecular Chemistry*, **2006**, 4(23), 4375-4386. DOI: 10.1039/b608455a **IF: 3.562**

10. Mircea V. Cristea, Maria Curtui, Castelia Cristea, **Luiza Gaina**, Modelling Uranium(VI) Extraction Using Artificial Neural Networks, *Studia Universitatis Babeş-Bolyai Chemia* **2006**, 51(1), 27-32.
9. Lovasz Tamas, Turos Gyoergy, **Gaina Luiza**, Csampai Antal, Frigyes David, Fabian Balazs; Silberg Ioan, Sohar Pal. Structure elucidation and DFT-study on substrate-selective formation of chalcones containing ferrocene and phenothiazine units. Study on ferrocenes. Part 17 *Journal of Molecular Structure*, **2005**, 751(1-3), 100-108. doi.org/10.1016/j.molstruc.2005.04.037 **IF: 1.602**
8. **Gaina Luiza**, Lovasz Tomas, Cristea Castelia, Silberg Ioan, Deleanu Calin. Synthesis and structural assignments of new long-chain alkyldioxy-bis-diphenylamines and phenothiazines. *Revue Roumaine de Chimie*, **2003**, 48(7), 549-554. **IF: 0.311**
7. **Gaina Luiza**, Cristea Castelia, Silberg Ioan, Lovasz Tamas, Udrea Silvia. Aryl-substituted phenothiazinyl-enones - I. Synthesis and structural NMR assignments. *Revue Roumaine de Chimie*, **2002**, 47(10-11), 983-988. **IF: 0.311**
6. Jitaru Maria, Petrica Gabriel, **Gaina Luiza**, Cristea Castelia, Lovasz Tomas, Silberg Ioan, Electrochemical investigation of electron-transfer phenomena in the series of phenothiazine and of related compounds. I - Comparative study of N-alkyl-3-formyl-phenothiazines and of a phenothiazine Schiff base by cyclic voltammetry. *Revue Roumaine de Chimie*, **2002**, 47(3-4), 249-255. **IF: 0.311**
5. **Gaina Luiza**, Lovasz Tamas, Silberg Ioan, Cristea Castelia, Udrea Silvia. New Schiff bases derived from 3-formyl-10-alkyl-phenothiazine I. NMR and UV-Vis structural assignments. *Heterocyclic Communications*, **2001**, 7(6), 549-554. **IF: 0.593**
4. Vlassa Mircea, Silberg Ioan, **Gaina Luiza**. Application of phase transfer catalysis (PTC) without solvent in organic synthesis. IV - Selective O-alkylation of hydroxy-phenothiazine and hydroxy-diphenylamine derivatives. (Advanced Synthesis & Catalysis) *Journal fur Praktische Chemie-Chemiker-Zeitung*, **1998**, 340(6), 576-577. **I.F: 5.663**
3. Darabantu Mircea, Ple Gerard, Mager Sorin, Puscas Camelia, Catora Eleonora, **Gaina Luiza**. Ring-chain tautomerism of some Schiff-Bases of l-p-nitrophenylserinol. *Revue Roumaine de Chimie*, **1997**, 42(12), 1137-1140. **IF: 0.311**
2. Darabantu Mircea, Ple Gerald, Mager Sorin, Catora Eleonora, **Gaina Luiza**, Costas L, Mates A. Synthesis and stereochemistry of some heterocyclic saturated compounds based on l-p-nitrophenylserinol skeleton .1. Ring-chain tautomerism of some Schiff bases of l-p-nitrophenylserinol. *Tetrahedron*, **1997**, 53(5), 1873-1890. **IF: 2.641**
1. Darabantu Mircea, Ple Gerard, Mager Sorin, **Gaina Luiza**, Catora Eleonora, Mates A, Costas L. Synthesis and stereochemistry of some heterocyclic saturated compounds based on l-p-nitrophenylserinol skeleton .2. 1-Aza-3,7-dioxabicyclo[3.3.0.]octanes. *Tetrahedron*, **1997**, 53(5), 1891-1908. **IF: 2.641**