



ROMÂNIA
UNIVERSITATEA BABEŞ-BOLYAI CLUJ-NAPOCA

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RECTORATUL

Universitatea Babeş-Bolyai Competiția Excelenței 2010

Dosar Program de Studii

Notă: Toate datele se referă la perioada 2005-2009

A. Programul de studii

Numele programului de studii	SCOALA DOCTORALA DE CHIMIE
Tipul programului (Licență/ Master/ Doctoral/ Post-Doctoral)	Doctoral
Directorul/responsabilul programului (nume, prenume, grad didactic)	Popescu Ionel Catalin profesor
Domeniul programului	Chimie
Adresa paginii web a programului	http://www.chem.ubbcluj.ro/pr-acad/doctorat.html
Adresa e-mail a directorului	cpopescu@chem.ubbcluj.ro

B. Obiectivele programului (maximum 1 pagina, în manieră cât mai accesibilă)

- Formarea de specialiști în domeniul chimiei anorganice, chimiei fizice, chimiei organice și organometalice;
- Abordarea interdisciplinară a unor domenii de interes pe plan mondial cum ar fi:
 1. Compusi organometalici ai metalelor netranzitionale cu potențiale aplicații în stocarea și transferul de CO₂, liganzi în chimia coordinativă a metalelor tranzitionale
 2. Materiale cu proprietăți optice sau electronice speciale, cu aplicații în obținerea de senzori sau în cataliza omogenă
 3. Agenți de contrast RMN (imaging), compusi cu activitate biologică potențială (activitate antitumorală, antiinflamatorie)
 4. Materiale de electrod (electrozi modificați, aerogeluri organice și anorganice, filme subțiri cu proprietăți speciale) cu proprietăți electrocatalitice și foto(electro)catalitice
 5. Senzori / biosenzori (amperometrici și potențiometrici) electrochimici pentru detectarea unor specii chimice de interes biotehnologic și biomedical
 6. Electrodepunerea metalelor și compozitelor
 7. Coroziunea metalelor și artefactelor
 8. Obținerea și caracterizarea de electrozi modificați cu aplicații electroanalitice
 9. Procese electrochimice în mediul ambiant
 10. Nano-materiale, materiale cu proprietăți optice sau electronice speciale, cu aplicații în obținerea de noi materiale, catalizatori, aparate electronice miniaturizate

11. Molecular design si drug design
 12. Sinteza iterativ-dendritica
 13. Dendrimeri melaminici prin sinteza iterativ-convergenta
 14. Dendrimeri melaminici ca si „delivery drug systems”
 15. Design-ul, sinteza, structura si proprietatile unor noi molecule tehnomimetice (masini moleculare) si a unor sisteme complexe bazate pe asociatii supramoleculare
 16. Formarea de agregate supramoleculare si dinamica acestora, dirijata de procese de recunoastere moleculara.
- Stabilirea si dezvoltarea de colaborări cu colective de cercetare de prestigiu pe plan mondial in domeniile abordate, elaborarea de teze de doctorat in cotutela.

C. Cadre didactice implicate în program și cursurile tinute în program:

Numele și prenumele, gradul didactic	Facultatea, Catedra	Cursuri	Semnătura
Cristian Silvestru Prof. Dr., Membru Correspondent al Academiei	Facultatea de Chimie si Inginerie Chimica	RMN și difracție de raze X în chimia organometalică	
Liana Maria MURESAN Prof. Dr.		Metode electrochimice de investigare	
Ionel Catalin Popescu Prof. Dr.		Electrochimie supramoleculara	
Maria Tomoaia-Cotisel Prof. Dr.		Microscopie de forta atomica	
Mircea Diudea Prof. Dr.		Corelații structură-proprietăți	
Mircea Darabantu Prof. Dr.		RMN in chimia organica	
Ioan Grosu Prof. Dr.		Stereochimie	
Luminita Silaghi-Dumitrescu Prof. Dr.		Sinteze asimetrice	

D. Studenți în program

2. în cazul unui program doctoral: nr. doctoranzilor înmatriculați și lista tezelor susținute

	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010
Nr. doctoranzi romani	-	C. Silvestru (3) <i>Adriana ILIE</i> (cu frecventa, fara bursa cotutela Spania) <i>Ancuta Covaci</i> (cu frecventa, cu bursa) <i>Mihaela Cojocaru</i> (<i>Vlassa</i>) (ff, cu taxa)	C. Silvestru (2) <i>Alpar PÖLLNITZ</i> (cu frecventa, cu bursa) <i>Ionut BARTES</i> (cu frecventa, bursa din granturi)	C. Silvestru (2) <i>Ana Maria PREDĂ</i> (cu frecventa, cu bursa POSDRU) <i>Alexandra POP</i> (cu frecventa, cu bursa POSDRU)	C. Silvestru (2) <i>Ioana BARBUL</i> (cu frecventa, cu bursa POSDRU) <i>Raluca MITEA</i> (fara frecventa, cu taxa)
	Liana Muresan (1) <i>Codruta M. VARODI</i> (frecventa, fara bursa)	L. Muresan (1) <i>Ionut Andrei ZAMBLAU</i> (cu frecventa, fara bursa)	L. Muresan (1) <i>Adriana Ana Maria VLASA</i> (cu frecventa, cu bursa) –cotutela Univ. Besancon, Franta	L. Muresan (1) <i>Ileana ROTARU</i> (fara frecventa, cu taxa)	L. Muresan (1) <i>Diana BLEJAN</i> (cu frecventa, cu bursa POSDRU)

	I. C. Popescu (1) <i>Popa Mihaela</i> (cu frecventa, cu bursa)	I.C. Popescu (1) <i>Bica Ecaterina</i> (cu frecventa, cu bursa)	I.C. Popescu (2) <i>Varvari Lidia</i> (cu frecventa, cu bursa) <i>Pap Zsolt</i> (ff, cu taxa)	I.C. Popescu (2) <i>Lates Vasilica</i> (cu frecventa, bursa AUF, cotutela Franta) <i>Kovacs Gabor</i> (cu frecventa, bursa POSDRU)	I.C. Popescu (1) <i>Rusu Monica</i> (ff., cu taxa)
	Mircea Diudea -	Mircea Diudea <i>Nagy Katalin</i>	Mircea Diudea <i>Onisor Cristina</i>	Mircea Diudea <i>Pop L Monica</i> <i>Tasnadi Erika</i> <i>Orza I Anamari</i>	Mircea Diudea -
	Mircea Darabantu Ana Camelia BERGHIAN (cas. GROSAN)	M. Darabantu -	M. Darabantu Flavia Adina POPA (cas. MARTIN) (cu frecventa, fara bursa) Cotutela cu Universitatea din Rouen (Franta)	M. Darabantu -	M. Darabantu Salomia-Oana MOLDOVAN (cu frecventa, cu bursa POSDRU) Cotutela cu Universitatea din Rouen (Franta)
	Ioan Grosu 15	Ioan Grosu 15	Ioan Grosu 15	Ioan Grosu 15	Ioan Grosu 12
Nr. doctoranzi internaționali	-	-	-	-	-

Nume, prenume doctorand	Titlul tezei	Anul susținerii	Conducător științific
1. Monika KULCSAR	<i>Organoselenium and – tellurium derivatives with intramolecular coordination</i>	2005, cu referent strain – Prof. Dr. Antonio Laguna, (Universidad de Zaragoza, Spania)	Prof. Dr. Cristian Silvestru
2. Oana BUMBU	<i>Inorganic and organomercury compounds with intramolecular coordination and compounds with Au-M-C (M = Hg, Te) fragment</i>	2006, cu referent strain – Dr. Concepcion Gimeno (Universidad de Zaragoza, Spania)	Prof. Dr. Cristian Silvestru
3. Laura OPRIS	<i>New hypervalent organoantimony compounds with intramolecular N→Sb coordination</i>	2006, cu referent strain – Prof. Dr. Hans J. Breunig (Bremen Universitat, Germania)	Prof. Dr. Cristian Silvestru
4. Olimpia Adina ROTAR	<i>Studies on hypervalent organotin compounds</i>	2007	Prof. Dr. Cristian Silvestru
5. Albert Paul SORAN	<i>New organobismuth compounds containing pendant arm groups</i>	2007, cu referent strain – Prof. Dr. Hans J. Breunig (Bremen Universitat, Germania)	Prof. Dr. Cristian Silvestru
6. Dana BAN (COPOLOVICI)	<i>New organoantimony derivatives stabilized through intramolecular coordination</i>	2007	Prof. Dr. Cristian Silvestru
7. Anca Violeta CRACIUN (BELEAGA)	<i>Hypervalent organochalcogen compounds with intramolecular N→E (E = Se, Te) interactions</i>	2008, cu referent strain – Prof. Dr. Hans J. Breunig (Bremen Universitat, Germania)	Prof. Dr. Cristian Silvestru
8. Rozalia- Vilma BOJAN	<i>Contributions to the chemistry of compounds with gold-antimony interactions</i>	2008, cu referent strain – Prof. Dr. José M ^a López de Luzuriaga Fernández (Universidad de La Rioja, Logroño, Spania)	Prof. Dr. Cristian Silvestru
9. Mihai Gabriel NEMA	<i>Studies on the chemistry of hypervalent organobismuth compounds</i>	2009, cu referent strain – Prof. Dr. Hans J. Breunig (Bremen Universitat,	Prof. Dr. Cristian Silvestru

		Germania)	
10. Ancuta COVACI	<i>Coordination chemistry of gold(I) with (C,N) and (P,N) ligands</i>	2009, cu referent strain – Prof. Dr. Antonio Laguna, (Universidad de Zaragoza, Spania)	Prof. Dr. Cristian Silvestru
11. Carmen-Otilia COMSA	<i>Studies on the chemistry of organotin compounds containing metal-chalcogen bonds</i>	2009	Prof. Dr. Cristian Silvestru
12. Ioana LADIU	<i>Oxidarea catalitica a NADH pe electrozi compoziti modificati cu Meldola Blue imobilizat pe materiale semiconductoare</i>	2007 (collaborare cu Universitatea din Lund)	Prof. I.C. Popescu
13. Liviu Cosmin COTET	<i>Aerogeluri de carbon. Sinteza, caracterizare si aplicatii</i>	2007	Prof. I.C. Popescu
14. Anca PETER	<i>Aerogeluri pe baza de TiO2 cu aplicatii la depoluarea mediului</i>	2009	Prof. I.C. Popescu
15. Laura MURESAN	<i>Amperometric detection of some chemical species of biomedical and biotechnological interest using modified electrodes</i>	2009	Prof. I.C. Popescu
16. Mihaela POPA	<i>Fotocatalizatori pe baza de aerogeluri de TiO2 dopat si nedopat. Caracterizare si aplicatii</i>	2010	Prof. I.C. Popescu
17. Oleg URSU	Studiul similarității în clase de compuși organici	2006	Prof. dr. M. V. Diudea
18. Georgeta HAZI	Compuși organici cu activitate biologica in metabolismul glandei tiroide	2006	Prof. dr. M. V. Diudea
19. Monica STEFU	Tessellation of nanostructures	2007	Prof. dr. M. V. Diudea
20. Aniela Elena VIZITIU	Modelarea proprietăților și structurilor moleculare cu ajutorul descriptorilor topologici	2007	Prof. dr. M. V. Diudea
21. Simona Daniela CIGHER	Structuri de valenta Kekule si polinoame de enumerare in descrierea structurilor chimice poliedrale	2009	Prof. dr. M. V. Diudea
21. Csaba Levente NAGY	Structure and stability of elongated carbon nanostructures	2009	Prof. dr. M. V. Diudea
22. Ana Camelia BERGHIAN	Synthèse et stéréochimie de systèmes 3,7-dioxa1-azabicyclo[3.3.0]octaniques fonctionnalisés. Etude de la métallation de bis-diazines et de diazines substituées par de groupements chélatants	27.11.2006	Prof. Dr. Mircea DARABANTU si Prof. Nelly PLE (cotutela cu Universitatea din Rouen, FRANTA)
23. Gropeanu Radu	Synthesis, stereochemistry and properties of some new spirane-type compounds containing 1,3-dioxane units, and of some new macrocycles with phenothiazine units	2005	Ion Grosu
24. Bogdan Niculina Daniela	Design, synthèse, analyse structurale et réactivité de nouveaux cyclophanes	2006	Ion Grosu si Gérard Plé (cotutela cu Univ. Rouen)
25. Florian Maria Carmen	Design, synthèse et analyse structurale de nouvelles molécules hôtes: macrocycles et cyclophanes	2006	Ion Grosu si Gérard Plé (cotutela cu Univ. Rouen)
26. Păunescu Emilia	Design, synthèse, analyse structurale et activité	2007	Ion Grosu si Patricia Melnyk (cotutela cu Univ. Lille 2)

	antipaludic des nouveaux analogues de l'Amodiaquine et l'Amopyroquine		
27. Demeter Dora	Design, Synthesis, Structural Analysis and Supramolecular Properties of Some New Macrocyclic Compounds with Bithiophene Units	2008	Ion Grosu si Jean Roncali (cotutela cu Univ. Angers)
28. Roiban Doru Gheorghe	Synthesis, Characterization, Structural Analysis and Reactivity of 5(4H)-Oxazolone Derivatives and Rotaxane Precursors	2009	Ion Grosu
29. Toşa Nicoleta	Contributions to the Synthesis and Structural Analysis of Some Bicyclic Compounds and to the Fabrication of 3D Metallic Micro- and Nanostructures by Laser Induced Photochemistry	2009	Ion Grosu
30. Piron (Pop) Flavia	New Functional Architectures for Molecular Recognition, Low Band Gap Conjugated Systems and Advanced Electrode Materials	2009	Ion Grosu si Jean Roncali (cotutela cu Univ. Angers)
31. Gâz Serban Andrei	Design, Synthesis and Structural Analysis of Some New Spirans, Macrocycles and Molecular Devices. Supramolecular Devices to the New Frontiers	2010	Ion Grosu
32. Mihiş Alin-Grig,	Sinteza, analiza structurala si proprietatile unor noi compusi cu cicluri hexaatomice saturate	2010	Ion Grosu

E. Realizări ale studenților din program

1. Articole științifice indexate ISI

Prof. C. SILVESTRU

1. Monika KULCSAR

- Hypervalent selenium compounds containing N→Se intramolecular interactions: synthesis, characterization and X-ray structures of [2-(Me₂NCH₂)C₆H₄]SeS(S)PR₂ (R = Ph, OⁱPr), C. Deleanu, J. E. Drake, M. B. Hursthouse, M. Kulcsar, M. E. Leight and A. Silvestru, *Appl. Organomet. Chem.*, **2002**, 16, 727-731.
- Organoselenium(II) and –selenium(IV) compounds containing 2-(Me₂NCH₂)C₆H₄ moieties. Solution behavior and solid state structure, M. Kulcsar, A. Silvestru, C. Silvestru, J. E. Drake, C. L. B. Macdonald, M. E. Hursthouse and M. E. Light, *J. Organomet. Chem.*, **2005**, 690, 3217-3228.
- New organoselenium(II) derivatives containing Se-antimony bonds, M. Kulcsar, M. Boanca, A. Silvestru and H. J. Breunig, *J. Optoelec. Adv. Mat.*, **2007**, 9, 726-729.
- Solid state structure and solution behaviour of organoselenium(II) compounds containing 2-{X(CH₂CH₂)₂NCH₂}C₆H₄ groups (X = O, NMe), M. Kulcsar, A. Beleaga, C. Silvestru, A. Nicolescu, C. Deleanu, C. Todasca and A. Silvestru, *Dalton Trans.*, **2007**, 2187-2196.
- 1,3-Bis[2-(dimethylaminomethyl)phenyl]triselenide, M. Kulcsar, A. Silvestru and F. Cziple, *Acta Cryst.*, **2007**, C63, o701-o703.

2. Oana BUMBU

- Phenylmercury(II) derivatives of tetraorganodichalcogenoimidodiphosphorus acids. Crystal and molecular structure of [PhHg{(OPR₂)(SPPPh₂N)}₂] (R = Me, Ph), O. Bumbu, A. Silvestru, C. Silvestru, J. E. Drake, M. B. Hursthouse and M. E. Light, *J. Organomet. Chem.*, **2003**, 687, 118-124.
- New organomercury(II) compounds containing intramolecular N→Hg interactions. Crystal and

- molecular structure of [2-(Me₂NCH₂)C₆H₄]HgCl and [2-(Me₂NCH₂)C₆H₄]HgS(S)PPh₂,
O. Bumbu, C. Silvestru, M. C. Gimeno and A. Laguna,
J. Organomet. Chem., **2004**, 689, 1172-1179.
3. New inorganic mercury(II) derivatives of asymmetric tetraorganodichalcogenoimidodiphosphinato ligands. Crystal and molecular structure of Hg[(XPM₂)(SPPH₂)N]₂·(X = O, S),
O. Bumbu, A. R. Varga and A. Silvestru,
Rev. Roum. Chim., **2004**, 49, 269-278.
 4. Unprecedented gold-tellurolate clusters [Au₈(μ-TeR)₈(PR'₃)₄],
O. Bumbu, C. Ceamanos, O. Crespo, M. C. Gimeno, A. Laguna, C. Silvestru and M. D. Villacampa,
Inorg. Chem., **2007**, 46, 11457-11460.
- 3. Laura OPRIS**
1. Solid state structure and solution behaviour of hypervalent organoantimony halides containing 2-(Me₂NCH₂)C₆H₄⁻ moieties,
L. M. Opris, A. Silvestru, C. Silvestru, H. J. Breunig and E. Lork,
Dalton Trans., **2003**, 4367-4374.
 2. Syntheses and chemistry of hypervalent *cyclo*-R₄Sb₄, *cyclo*-(RSbE)_n [R = 2-(Me₂NCH₂)C₆H₄, E = O, S] and precursors,
L. M. Opris, A. Silvestru, C. Silvestru, H. J. Breunig and E. Lork,
Dalton Trans., **2004**, 3575 - 3585.
 3. Syntheses and characterization of hypervalent organoantimony(III) compounds containing the [2-(Me₂NCH₂)C₆H₄]₂Sb fragment,
L. M. Opris, A. M. Preda, R. A. Varga, H. J. Breunig and C. Silvestru,
Eur. J. Inorg. Chem., **2009**, 1187-1193.
- 4. Olimpia Adina ROTAR**
1. Structure and *in vitro* antibacterial activity of BuSnCl_{3-n}[(OPPh₂)(SPPH₂)N]_n (n = 1, 2),
A. Rotar, A. Silvestru, C. Silvestru, J. E. Drake, M. B. Hursthouse, M. E. Light, L. Bunaciu and P. Bunaciu,
Appl. Organomet. Chem., **2005**, 19, 555-562.
 2. Hypercoordinated organotin(IV) halides containing 2-(Me₂NCH₂)C₆H₄ groups: [2-(Me₂NCH₂)C₆H₄]₂SnX₂ (X = F, Cl, Br, I) and [2-(Me₂NCH₂)C₆H₄]₂R₂SnX (R = Me, Ph; X = F, Cl, Br, I) – solution behaviour and solid state hydrogen bonding-based supramolecular architecture,
R. A. Varga, A. Rotar, M. Schuermann, K. Jurkschat and C. Silvestru,
Eur. J. Inorg. Chem., **2006**, 1475-1486.
 3. Intramolecular interactions in μ-oxido-bis{bis[2-(dimethylaminomethyl)phenyl]stannol},
A. Rotar, R. A. Varga and C. Silvestru,
Acta Cryst., **2007**, C63, m355-m356.
 4. Substitutional disorder in a hypervalent diorganotin(IV) dihalide,
A. Rotar, R. A. Varga and C. Silvestru,
Acta Cryst., **2008**, E64, m45.
 5. Crystal and molecular structure of [2,6-(CH₂NMe₂)₂C₆H₃]₂SnF₂, an intramolecularly coordinated diorganotin difluoride,
A. Rotar, M. Schürmann, R. A. Varga, C. Silvestru and K. Jurkschat,
Z. Anorg. Allg. Chem., **2008**, 634, 1533-1536.
 6. Diorganotin(IV) compounds containing 2-(Et₂NCH₂)C₆H₄ moieties. Configurational stability in solution and solid state structures,
A. Rotar, R. A. Varga, K. Jurkschat and C. Silvestru,
J. Organomet. Chem., **2009**, 694, 1385-1392.
- 5. Albert Paul SORAN**
1. Organobismuth homocycles (R₂Bi)_n and heterocycles (R₂BiS)₂,
H. J. Breunig, L. Balázs, N. Philipp, A. Soran and C. Silvestru,
Phosphorus, Sulfur & Silicon, **2004**, 179, 853-857.
 2. HPLC monitored synthesis of R₂NCH₂ substituted benzene derivatives used as (C,N)-ligands for organometallic compounds,
L. Soran, V. Coman, A. Soran and C. Silvestru,
Central Eur. J. Chem., **2004**, 2, 563-572.
 3. Isomers of a dibismuthane, R₂Bi-BiR₂ [R = 2,6-(Me₂NCH₂)₂C₆H₃], and unusual reactions with oxygen: formation of [R₂Bi]₂(O₂) and R'R''Bi [R' = 2-(Me₂NCH₂)-6-{Me₂N(O)CH₂}C₆H₃; R'' = 2-(Me₂NCH₂)-6-{O(O)C}C₆H₃],
L. Balazs, H. J. Breunig, E Lork, A. Soran and C. Silvestru,
Inorg. Chem., **2006**, 45, 2341-2346.
 4. Organobismuth(III) dihalides with T-shaped geometry stabilized by intramolecular N→Bi interactions and related diorganobismuth(III) halides,

- A. P. Soran, C. Silvestru, H. J. Breunig, G. Balázs and J. C. Green,
Organometallics, **2007**, 26, 1196-1203.
- Hypervalent organobismuth(III) carbonate, chalcogenides and halides with the pendant arm ligands 2-(Me₂NCH₂)C₆H₄ and 2,6-(Me₂NCH₂)₂C₆H₃,
H. J. Breunig, L. Königsmann, E. Lork, N. Philipp, M. Nema, C. Silvestru, A. Soran, R. A. Varga and R. Wagner,
Dalton Trans., **2008**, 1831-1842.
 - Monoorganobismuth(III) dihalides containing the new pincer 2,6-{MeN(CH₂CH₂)₂NCH₂}₂C₆H₃ ligand: solution NMR, vibrational and single-crystal X-ray studies,
A. Soran, H. J. Breunig, V. Lippolis, M. Arca and C. Silvestru,
Dalton Trans., **2009**, 77-84.
 - Syntheses, solid-state structures, solution behaviour of hypervalent organobismuth(III) compounds [2-(Et₂NCH₂)C₆H₄]_nBiX_{3-n} and DFT characterization of [2-(Me₂NCH₂)C₆H₄]_nBiX_{3-n} [X = Cl, Br, I; n = 1 - 3],
A. Soran, H. J. Breunig, V. Lippolis, M. Arca and C. Silvestru,
J. Organomet. Chem., **2010**, 695, 850-862.
- 6. Dana BAN (COPOLOVICI)**
- 4-Benzylmorpholin-4-ium chloride,
D. Copolovici, C. Silvestru and R. A. Varga,
Acta Cryst., **2007**, E63, o2465.
 - Tris[2-(morpholin-4-ylmethyl)phenyl-κ²C¹,N]antimony(III),
D. Copolovici, C. Silvestru and R. A. Varga,
Acta Cryst., **2008**, C64, m37-m39.
 - Di-μ-chlorido-bis {2-(morpholinomethyl)phenyl-κ²C¹,N}palladium(II)},
D. Copolovici, C. Silvestru, F. Isaia and R. A. Varga,
Acta Cryst., **2008**, E64, m1057-m1058.
- 7. Anca Violeta CRACIUN (BELEAGA)**
- Solid state structure and solution behaviour of organoselenium(II) compounds containing 2-{X(CH₂CH₂)₂NCH₂}C₆H₄ groups (X = O, NMe),
M. Kulcsar, A. Beleaga, C. Silvestru, A. Nicolescu, C. Deleanu, C. Todasca and A. Silvestru,
Dalton Trans., **2007**, 2187-2196.
 - Organoselenium(II) complexes containing organophosphorus ligands. Crystal and molecular structure of PhSeSP(S)Ph₂, [2-{MeN(CH₂CH₂)₂NCH₂}C₆H₄]SeSP(S)R'₂ (R' = Ph, OPr^t) and [2-{O(CH₂CH₂)₂NCH₂}C₆H₄]SeSP(S)(OPr^t)₂,
A. Beleaga, M. Kulcsar, C. Deleanu, A. Nicolescu, C. Silvestru and A. Silvestru,
J. Organomet. Chem., **2009**, 694, 1308-1316.
- 8. Rozalia- Vilma BOJAN**
- Phosphorescent excited state of [Au₂{(Ph₂Sb)₂O} ₃]²⁺: Jahn-Teller distortion at only one gold(I) center,
V. R. Bojan, E. J. Fernandez, A. Laguna, J. M. Lopez-de-Luzuriaga, M. Monge, M. E. Olmos and C. Silvestru,
J. Am Chem. Soc., **2005**, 127, 11564-11565.
 - N,N-bis(2-bromoethyl)aniline,
R. V. Bojan, R. A. Varga and C. Silvestru,
Acta Cryst., **2008**, E64, o86.
- 9. Mihai Gabriel NEMA**
- Experimental and theoretical evidence of the first metallophilic Au(I)···Bi(III) interaction,
E. J. Fernández, A. Laguna, J. M. López-de-Luzuriaga, M. Monge, M. Nema, M. E. Olmos, J. Pérez and C. Silvestru,
Chem. Commun., **2007**, 571-573.
 - Hypervalent organobismuth(III) carbonate, chalcogenides and halides with the pendant arm ligands 2-(Me₂NCH₂)C₆H₄ and 2,6-(Me₂NCH₂)₂C₆H₃,
H. J. Breunig, L. Königsmann, E. Lork, N. Philipp, M. Nema, C. Silvestru, A. Soran, R. A. Varga and R. Wagner,
Dalton Trans., **2008**, 1831-1842.
 - 4-Benzylpiperazin-1-ium chloride chloroform solvate,
M. G. Nema, R. A. Varga, C. Silvestru and H. J. Breunig,
Acta Cryst., **2008**, E64, o1585.
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Prof. Ioan GROSU

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Prof. Mircea DIUDEA

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2. Adriana Ana-Maria VLASA

1. A. Vlasa, S. Varvara, L.M. Muresan, **2009**, Investigarea coroziunii acoperirilor compozite Zn-TiO₂ prin spectroscopie de impedanță electrochimică, *Coroziune și Protecție anticorozivă*, vol IV (3), 33-38.
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4. Teze de doctorat publicate la edituri recunoscute

5. Brevete naționale și internaționale

6. Realizări artistice naționale și internaționale (Domeniul Arte) (Expoziții, spectacole, concerte, publicații, filme, înregistrări)

7. Impactul în societate al lucrărilor produse

8. Absolvenți angajați în poziții importante în instituții relevante

- | | | |
|----|------------------------------|---|
| 1. | Monika KULCSAR | postdoc la Universidad de Zaragoza (Spania) |
| 2. | Oana BUMBU | CSIII, Institutul de Cercetari pentru Instrumentatie Analitica, Cluj-Napoca |
| 3. | Laura OPRIS | concediu de maternitate (Bremen, Germania) |
| 4. | Olimpia Adina ROTAR | CSIII, Fac. Chimie si Ing. Chimica, UBB |
| 5. | Albert Paul SORAN | Asist., Fac. Chimie si Ing. Chimica, UBB |
| 6. | Dana BAN (COPOLOVICI) | postdoc la Universitatea din Tartu (Estonia) |
| 7. | Anca Violeta CRACIUN | profesor, Bucuresti |

8. **Rozalia - Vilma BOJAN** postdoc la Universidad de La Rioja, Logroño (Spania)
9. **Mihai Gabriel NEMA** postdoc la Universitat Bremen, Germania
10. **Ancuta COVACI** in proces de angajare ca postdoc la Univ. din Zaragoza
11. **Carmen COMSA** Institutul de Cercetari Chimice, Medias
12. **Anca Peter** lect. la Universitatea din Baia Mare
13. **Laura MURESAN** postdoc la Universitatea din Geneva (Elvetia)
14. **Eugen Mesaros** post-doctorat in grupul prof. Amos B. Smith III (Senior Editor la Organic Letters) la University of Pennsylvania, angajat la CEPHALON biopharmaceutical company
15. **Clementina Mesaros** – post doctorat in grupul prof. Ian Blair si apoi Research Associate in acelasi grup
16. **Elena Bogdan** – post-doctorat la prof. Manfred Christl (bursa Humboldt – 18 luni) la Universitatea din Wuerzburg apoi asistent si lector la catedra de Chimie Orgabica a UBB
17. **Anamaria Terec** - post-doctorat la prof. Gerard Plé (bursa AUF – 18 luni) la Universitatea din Rouen, apoi asistent si lector la catedra de Chimie Orgabica a UBB
18. **Crina Cismas** – post-doctorat la prof. Thanasis Gimisis de la Universitatea din Atena (bursa Marie Curie -18 luni) apoi post-doctorat la prof. Ion Grosu (proiect PD) si in prezent CS3 la UBB
19. **Mirela Balog** multiple stagii post-doc la Rennes, Angers, Montpellier
20. **Radu Gropeanu** postdoctorat la prof. K. Mullen la Max-Planck Institute in Mainz si apoi angajat la Mertz Pharmaceutical Company (Mainz).
21. **Niculina Bogdan** –post doctorat la Prof. Daniel Funeriu la Universitatea Tehnica din Munchen
22. **Emilia Paunescu** –post-doctorat la Prof. J. Renard la Universitatea din Rouen
23. **Doru Roiban** post doctorat la Prof. Daniel Funeriu la Universitatea Tehnica din Munchen
24. **Flavia Piron** post doctorat la prof. Narcis Avarvari la Universitatea din Angers

F. Se atașează dosarul individual pentru fiecare cadru didactic implicat în program

Data:

Director Scoala doctorala de chimie

Prof. Ionel Catalin POPESCU

Certific validitatea datelor prezentate:

Decan,

Conf. Cornelia MAJDIK