



Curriculum vitae Europass



Informații personale

Nume / Prenume **Silaghi – Dumitrescu Luminita**

Adresă(e) Arany Janos Str. no. 1, RO-400028, Cluj Napoca

Telefon(oane) +40-264-593833/5777
Mobil: +40-746-198445

Fax: 40-264-590818

E-mail(uri) lusi@chem.ubbcluj.ro

Naționalitate Romana

Experiența profesională **2008-prezent: Prorector responsabil cu Cercetarea Stiintifica**
Universitatea Babes-Bolyai Cluj-Napoca

2000 – 2007: Decan

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

1999- prezent: Profesor

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

discipline: Chimie organica III, Reactivi organometalici in sinteza organica,
Compusi organometalici in mediu (Licenta), Aplicatii ale compusilor organometalici
in sinteza de heterociclii (Masterat), Sinteza asimetrica mediata de compusi organometalici
(Scoala doctorala)

Cercetari in domeniul Compusilor organometalici Grupele 14,15 si Compusi organometalici
si coordinativi ai metalelor tranzitionale. Aplicatii ale compusilor organometalici in sinteza organica.

Conducere de doctorat in Domniul Stiinte exacte, Specialitatea Chimie

1994-1999 Conferentiar universitar

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

disciplinele: Chimia si Tehnologia Antidaunatorilor, Chimia compusilor organometalici,
Chimia organica III: Reactivi organometalici in sinteza organica(Licenta), Aplicatii ale compusilor
organometalici in sinteza de heterociclii (Masterat)

Cercetari in domeniul Compusilor organometalici Grupele 14,15 si Compusi organometalici
si coordinativi ai metalelor tranzitionale. Aplicatii ale compusilor organometalici in sinteza organica.

1986- 1994: Lector

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

disciplinele: Chimie organica II, Chimia si Tehnologia Antidaunatorilor,
Chimia compusilor organometalici (Licenta)

Cercetari in domeniul Compusilor organometalici Grupele 14,15 si Compusi organometalici si
coordinativi ai metalelor tranzitionale. Experimente la diferite nivele (laborator, micropilot,
pilot) pentru obtinerea de compusi organofosforici si staniuorganici cu proprietati biologice,
in special pesticide.

1978-1986: Cercetator stiintific

Institutul de Cercetari in Chimie, Cluj-Napoca, Romania

Domenii de cercetare: sinteza si caracterizarea structurala a derivatilor organometalici ai elementelor din
grupele 14 si 15. Sinteza si caracterizarea de compusi cu proprietati biologice; elaborarea de procese
tehnologice (bazate pe experimente la scara pilot) pentru derivati staniu si silico-organici.

1978 – 1979: Chimist

Universitatea Babes-Bolyai Cluj-Napoca, Facultatea de Chimie si Inginerie Chimica
Domeniu de cercetare: sinteza si caracterizarea structurala a derivatilor fosfororganici)

1975-1978P: Chimist

Intreprinderea de matase "Romania Muncitoare", Cluj-Napoca, Romania

august 1975-octombrie 1975: Chimist

Uzina de Autocamioane Brasov, Romania, Laboratorul Central (analize chimice)

Educație și formare 1983**Doctor in Chimie**

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

1974-1975

Universitatea Babes-Bolyai Cluj-Napoca, Facultatea de Chimie si Inginerie Chimica
Specializare – Chimie anorganica

1970-1974**Licenta in chimie -1974**

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

Stagii in strainatate Stagii urmate de colaborari , inclusiv doctorate in cotutela (vezi lista de lucrari)

Department of Chemistry, University of Nottingham, Anglia

Universitatea Paul Sabatier Toulouse, Franța,

Instituto de Quimica, Universidad Nacional Autonoma de Mexico (Mexic)

University of Georgia, Athens, Georgia, USA

Institute of Inorganic Chemistry, Leipzig University, Germania

Aptitudini și competențe personale Capacitate foarte buna de comunicare verbala.

Capacitatea de a organiza activitati corelate atat cu mediul academic cat si cu mediul social.

Spirit analitic si sintetic, preocupare pentru corecta identificare a cauzelor si efectelor.

Capacitatea de a solutiona stari conflictuale

Calitati manageriale sustinute de rezultatele obtinute in calitate de sef de colectiv de cercetare,

Director de proiecte de cercetare si proiecte educationale, Decan si Prorector.

Limba maternă **Romana**

Proiecte si granturi obtinute **2006-2012:**

(selectie)

Aplicatiile bio-medicale ale compusilor metalelor – METALLOMICS

(Director responsabil UBB)

Dezvoltarea de metode nepoluante de sinteza organica si organometalica in camp de microunde - green chemistry – MESINEP – IDEI

Reactivi si intermediari organometalici in sinteze stereocontrolate de derivati cu relevanta biologica – RIOSIN – CEEEX

Extinderea laboratorului de chimie organometalica aplicata – ELACOM – CAPACITATI

Precursori organometalici ai elementelor din grupele 13/14/15 pentru dispozitive electronice hibride semiconductor/aur/molecule organice – CNCSIS

Program TEMPUS “ Reforma invatamantului superior de Chimie in Macedonia” (2008-2009)– coordonator din partea Romaniei

Programul “Materiale si Cataliza” finantat de DAAD in cadrul Pactului de Stabilitate in Sud-estul Europei (2005-2012), coordonator din partea Romaniei

Coordonări de programe/granturi finanțate din sursă internațională Membru in Comitetul de management si Grup de lucru al Actiunii COST CM 802 - European Phosphorus Sciences

Network (PhoSciNet) (2009-2012)

Membru in Comitetul de management si Grup de lucru al Actiunii 1302 – Smart Inorganic Polymers (SIPs) (2013-2017)

Grant individual **EC COST** (1993 - 1994), Universitatea Paul Sabatier Toulouse, Franța

Grant **Royal Society of Chemistry** (1998)

Chemistry Department, Oxford University (Anglia)

Chemistry Department, Bath University (Anglia)

Chemistry Department, Nottingham University (Anglia)

Membru al asociațiilor profesionale: Societatea Nationala de Chimie din Romania

Premii Premiul „Costin D. Nenitescu” al Academiei Romane, 1997

Premiul Nenitzescu-Criegee al Societatii Germane de Chimie si Academiei Romane, 2011

**Publicatii relevante
(din cele peste 140)**

1. Transition Metal Complexes of Organothiophosphorus Ligands. III. Six-Coordinate Adducts of Nickel(II)bis(diphenylphosphorodithioate) with Aromatic and Heterocyclic Diamines, R. Micu-Semeniuc, L. Silaghi-Dumitrescu, I. Haiduc, *Inorg. Chim. Acta*, **1976**, 17, 5-11
2. Transition Metal Complexes of Organothiophosphorus Ligands. V. Some Aryl Esters and Amides of Dithiophosphoric Acid and their Ni(II) and Co(II) and (III) Complexes, R. Micu-Semeniuc, L. Silaghi-Dumitrescu, I. Haiduc, *Inorg. Chim. Acta*, **1979**, 33, 281-285
3. Convenient Preparation of Phenylarsenic(III)chloride from Tetraphenyltin and Arsenic(III)chloride, L. Silaghi-Dumitrescu, I. Haiduc, *Synth. React. Inorg. Met.-Org. Chem.*, **1983**, 13, 475-480
4. Organotin and Tin(IV) Derivatives of Dimethyldithioarsinic Acid, I.Haiduc, L. Silaghi-Dumitrescu, *J. Organomet. Chem.*, **1982**, 225, 225-232
5. Organo-silicon, -germanium and -lead Derivatives of Dimethyl- and Diphenyl-Dithioarsinic Acids, L. Silaghi-Dumitrescu, I. Haiduc, *J. Organomet. Chem.*, **1983**, 259, 65-69.
6. A Sulfotropic Molecular Rearrangement of Diphenylphosphinyl Diorganodithioarsinates. Formation of Diorganoarsenic(III)Diphenyldithiophosphinates, L. Silaghi-Dumitrescu, I. Haiduc, *J. Organomet. Chem.*, **1984**, 252, 295-299
7. Preparation and Properties of Some Organotin Dimethyl- and Diphenyl-Dithioarsinates. The Crystal Structure of $\text{Me}_2\text{Sn}[\text{S}_2\text{AsMe}_2]_2$, L. Silaghi-Dumitrescu I. Haiduc, J. Weiss, *J. Organomet. Chem.*, **1984**, 263, 159-165
8. Synthesis of Diphenylantimony(III) Dialkyldithio- and Diaryldithio- phosphinates and -arsinates; Crystal Structures of $\text{Ph}_2\text{SbS}_2\text{MPh}_2$ (M = P or As), C. Silvestru, L. Silaghi-Dumitrescu, I. Haiduc, M.J. Begley, M. Nunn, D.B. Sowerby, *J. Chem. Soc., Dalton Trans.*, **1986**, 1031-1034
9. Antimony(III) and Phenylantimony(III) dimethyldithioarsinates: Synthesis and Mass spectral Study. Crystal Structure of $\text{Ph}_2\text{SbS}_2\text{AsMe}_2$, the first coordination polymer associated via bridging dimethyldithioarsinate ligands, D.B. Sowerby, M.J. Begley, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, I. Haiduc, *J. Organomet. Chem.*, **1994**, 469, 45-53
10. Oxidation of $(\text{AsPh}_2)_2\text{E}$ (E = O, S). Supramolecular Hydrogen-Bonded Self-Assembly of an Unusual Tetranuclear Adduct; X-Ray Crystal Structure of $[\text{Ph}_2\text{As}(\text{O})\text{OHPh}_2\text{As}(\text{S})\text{SH}]_2$, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, M.N. Gibbons, J. Zuckerman-Schpector, I. Haiduc, D.B. Sowerby, *J. Organomet. Chem.*, **1996**, 517, 101-106
11. The First Example of an Oxygen Bridged Diorganoarsenic(V) Compound. Crystal and Molecular structure of $\text{Me}_2\text{As}(\text{S})\text{OAs}(\text{S})\text{Me}_2$, L. Silaghi-Dumitrescu, S. Pascu, I. Silaghi-Dumitrescu, I. Haiduc, M.N. Gibbons, D.B. Sowerby, *J. Organomet. Chem.*, **1997**, 549(1-2), 187-192
12. On The Structure of Bis(9-Fluorenyl)Dimethylsilane: A Sterically Crowded Molecule with Relatively Low Barriers of Rotations around the Si-C(fluorenyl) Bonds. X-Ray Diffraction Analysis and AM1 Molecular Orbital Calculations. L. Silaghi-Dumitrescu, I. Haiduc, R. Cea-Olivares, I. Silaghi-Dumitrescu, J. Escudie, C. Couret, *J. Organomet. Chem.*, **1997**, 545-546, 1-8
13. Comparative PM3-MO Study of the E_2O_2 and E_2N_2 (E = P,As) Four Membered Ring Systems, I. Silaghi-Dumitrescu, A. Horea, S. Pascu, L. Silaghi-Dumitrescu, I. Haiduc, *Phosphorus and Sulfur*, **1997**, 124-125, 441-444
14. Investigations in Organoarsenic Chemistry. In Vol. "Arsenic and Old Mustard: Chemical Problems in the Destruction of Old Arsenicals and "Mustard" Munitions, I. Haiduc, L. Silaghi-Dumitrescu, Editat de J.F. Bunnett and M. Mikolajczyk, NATO ASI Series, vol.19, p.149-150, Ed. Kluwer Academic Publishers, London, **1998**
15. Coordination and self-assembly in the crystal structure of $\text{KS}_2\text{AsMe}_2 \cdot 2\text{H}_2\text{O}$, S. Pascu, L. Silaghi-Dumitrescu, A.J. Blake, I. Haiduc, D.B. Sowerby, *Polyhedron*, **1998**, 17, 4115-4119
16. Is the Trigonal Distortion the answer for the Geometry of In(III) four membered Dithiochelate Compounds? The Crystal and Molecular Structure of $\text{In}(\text{S}_2\text{AsR}_2)_3$ (R = Me, Ph), L. Silaghi-Dumitrescu, I. Haiduc, A. Toscano, R. Cea Olivares, *Z. Anorg. Allgem. Chem.*, **1999**, 625(2), 347-351
17. Group 6 transition metal carbonyl complexes with chalcogen-bridged diarsenic(III) ligands, L.H. Doerrer, J.C. Green, M.L.H. Green, I. Haiduc, C.N. Jardine, S.I. Pascu, L. Silaghi-Dumitrescu, D.J. Watkin, *J. Chem. Soc., Dalton Trans.*, **2000**, 3347-3355
18. Bromination of $(\text{AsPh}_2)_2\text{O}$: the structure of diphenylarsenic(V) tribromide. L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, R. Silaghi-Dumitrescu, I. Haiduc, A.J. Blake, D.B. Sowerby, *Rev. Soc. Quim. Mexico*, **2000**, 44, 134-138
19. Tin(IV) halide complexes of AsPh_3 : The structures of *trans*- $\text{SnCl}_4(\text{AsPh}_3)_2$ and $\text{SnBr}_4(\text{AsPh}_3) \cdot \text{AsPh}_3$, M.F. Mahon, N.L. Moldovan, K.C. Molloy, A. Muresan, I. Silaghi-

- Dumitrescu, L. Silaghi-Dumitrescu, *J. Chem. Soc., Dalton Trans.*, **2004**, 4017-4021
20. The first evidence for a transient stiballene ArSbCCR₂, L. Baiget, H. Ranaivonjatovo, J. Escudie, G. Cretiu Nemes, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, *J. Organomet. Chem.*, **2005**, 690(2), 307-312
 21. A Surprisingly Stable 1-(Chlorosilyl)-2-phosphaethenylthium Compound, RCl₂SiC(Li)=Pmes*, G. Cretiu Nemes, H. Ranaivonjatovo, J. Escudie, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, H. Gornitzka, *Eur. J. Inorg. Chem.*, **2005**, 1109-1113
 22. Difluorenylsilanes, -gremanes, and -stannanes Exhibiting an Unprecedented Parallel Arrangement of the Fluorene Units, G. Cretiu Nemes, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, J. Escudie, H. Ranaivonjatovo, K.C. Molloy, M.F. Mahon, J. Zukerman-Schpector, *Organometallics*, **2005**, 24, 1134-1144
 23. Co-complexes of *ortho*-dilithiated thiophenol or 2-trimethylsilylthiophenol with lithiated TMEDA molecules: synthesis, crystal structures and theoretical studies (TMEDA = *N,N,N'*,*N'*-tetramethylethylenediamine), A. Hildebrand, P. Lönnecke, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, E. Hey-Hawkins, *Dalton Trans.*, **2006**, (7), 967-974
 24. Phosphavinylidene(oxo)phosphorane Mes*P(O)=C=PMes*: A Diphosphaalene Featuring $\lambda^5\sigma^3$ - and $\lambda^3\sigma^2$ - Phosphorus Atoms, R. Septelean, H. Ranaivonjatovo, G. Nemes, J. Escudie, I. Silaghi-Dumitrescu, H. Gornitzka, L. Silaghi-Dumitrescu, S. Massou, *Eur. J. Inorg. Chem.*, **2006**, 4237-4241
 25. New Digermylalkenes and Digermylalkynes: [1,3]-Chlorine Shifts in Organogermanium Chemistry? G. Nemes, J. Escudie, I. Silaghi-Dumitrescu, H. Ranaivonjatovo, L. Silaghi-Dumitrescu, H. Gornitzka, *Organometallics*, **2007**, 26(21), 5136-5139
 26. Synthesis and characterization of the first arsanylbis(methylene)phosphorane (Me₃Si)₂C:P(Mes*):C(Cl)As(F)Mes*, P.M. Petrar, G. Nemes, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, J. Escudie, H. Gornitzka, H. Ranaivonjatovo, *Rev. Roum. Chim.*, **2007**, 52(1-2), 45-49
 27. Palladium(II) and Platinum(II) Complexes with Heteroditopic 10-(Aryl)phenoxarsine (Aryl = 2-C₆H₄OR, R = H, Me, Pri) Ligands: Solvent-Oriented Crystallization of *cis* Isomers, N. Moldovan, P. Loennecke, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, E. Hey-Hawkins, *Inorg. Chem.*, **2008**, 47(5), 1524-1531
 28. Silatropic migration in (1-trimethylsilylindenyl)(indenyl)dimethylsilane, bis(1-trimethylsilylindenyl)dimethylsilane and related compounds, G. Nemes, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, J. Escudie, Jean; H. Ranaivonjatovo, J. Zukerman-Schpector, *Rev. Roum. Chim.*, **2007**, 52(8-9), 809-816
 29. Tungsten phosphanylaryliothiolato complexes [W{PhP(2-SC₆H₄)₂-κ₃S,S',P}2] and [W{P(2-SC₆H₄)₃-κ₄S,S',S",P}2]: Synthesis, structures and redox chemistry, A. Hildebrand, P. Loennecke, L. Silaghi-Dumitrescu, E. Hey-Hawkins, *Dalton Trans.*, **2008**, (34), 4639-4646
 30. Meso-tetraferrocenyl-tetramethylcalix[4]pyrrole-modified graphite electrode with anion recognition properties, V. Coman, L.M. Muresan, S. Lozovanu, L. Silaghi-Dumitrescu, I.C. Popescu, *Rev. Roum. Chim.*, **2008**, 53(2), 119-125
 31. When Arsine Makes the Difference: Chelating Phosphino and Bridging Arsinoaryliothiolato Gallium Complexes, A.M. Valean, S. Gomez-Ruiz, P. Loennecke, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, E. Hey-Hawkins, *Inorg. Chem.*, **2008**, 47(23), 11284-11293
 32. The CellScan technology for *in vitro* studies on novel platinum complexes with organoarsenic ligands, E. Fischer-Fodor, N. Moldovan, P. Virag, O. Soritau, I. Brie, P. Loennecke, E. Hey-Hawkins, L. Silaghi-Dumitrescu, *Dalton Trans.*, **2008**, (45), 6393-6400
 33. *vic*-Dichlorodiphosphapropenes - synthesis and coordination ability, R. Septelean, G. Nemes, J. Escudie, I. Silaghi-Dumitrescu, H. Ranaivonjatovo, P.M. Petrar, H. Gornitzka, L. Silaghi-Dumitrescu, N. Saffon, *Eur. J. Inorg. Chem.*, **2009**, (5), 628-634
 34. *N,N'* and *N,O* chelated phosphonium cations containing aminotroponimate or aminotroponate units, L.C. Pop, N. Katir, A. Castel, L. Silaghi-Dumitrescu, F. Delpech, I. Silaghi-Dumitrescu, H. Gornitzka, D. MacLeod-Carey, N. Saffon, *J. Organomet. Chem.*, **2009**, 694(9-10), 1562-1566
 35. Stabilisation of an inorganic digallane by the phosphinobisthiolato P,S,S pincer ligand PPh(2-SC₆H₄)₂, A.M. Valean, S. Gomez-Ruiz, P. Loennecke, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, E. Hey-Hawkins, *New J. Chem.*, **2009**, 33(8), 1771-1779
 36. Antiproliferative effect and genotoxicity of novel synthesized palladium complexes with organoarsenic ligands, N. Miklasova, E. Fischer-Fodor, P. Loennecke, M. Schrepler, P. Virag, C. Tatomir, V.I. Cernea, E. Hey-Hawkins, L. Silaghi-Dumitrescu, *J. Inorg. Biochem.*, **2009**, 103(12), 1739-1747
 37. On the microwave-assisted synthesis of acylphenothiazine derivatives - Experiment versus theory synergism, L. Gaina, D. Porumb, I. Silaghi-Dumitrescu, C. Cristea, L. Silaghi-Dumitrescu, *Can. J. Chem.*, **2010**, 88(1), 42-49
 38. Iodine-catalyzed stepwise [4+2] cycloaddition of phenothiazine- and ferrocene-containing

- Schiff bases with DHP promoted by microwave irradiation, E. Gal, C. Cristea L. Silaghi-Dumitrescu, T. Lovasz, A. Csampai, *Tetrahedron*, **2010**, 66(52), 9938-9944
39. Relativistic calculations of aminotroponimate complexes containing group 15 (P, As, Sb, Bi) elements, L.C. Pop, D. Mac-Leod Carey, A. Munoz-Castro, L. Silaghi-Dumitrescu, A. Castel, R. Arratia-Perez, *Polyhedron*, **2011**, 30(5), 841-845
 40. Aminotroponimate and Aminotroponate Complexes of Group 15 (P, As) Elements: Synthesis, X-ray Diffraction Analysis and Reactivity, L.C. Pop, A. Castel, L. Silaghi-Dumitrescu, N. Saffon, *Eur. J. Inorg. Chem.*, **2011**, (22), 3357-3364
 41. Walking on the surface of phenothiazines: a combined experimental and theoretical approach, D. Porumb, T. Lovasz, G. Rachita, C. Cristea, L. Gaina, L. Silaghi-Dumitrescu, *Rev. Roum. Chim.*, **2010**, 55(11-12), 879-884
 42. Unsymmetrical dinuclear rhodium complexes with arsanyl- and phosphanylthiolato ligands [Rh(μ -S-2-EPH₂C₆H₄-k₂S,E)2Rh(cod)] (E = As, P), A. Hildebrand, M.B. Sarosi, P. Lonneck, L. Silaghi-Dumitrescu, E. Hey-Hawkins, *Rev. Roum. Chim.*, **2010**, 55(11-12), 885-896
 43. Exploring the structure of arsaallene ylides - a theoretical approach, P.M. Petrar, G. Nemes, R. Septelean, L. Silaghi-Dumitrescu, J. Escudie, *Rev. Roum. Chim.*, **2010**, 55(11-12), 1061-1072
 44. Coordination chemistry of the heterotopic 1,2-phenylenebis(thio)diacetic acid ligand: Rhodium(I), palladium(II) and nickel(II) complexes, C. Berghof, I.G. Grosu, P. Loennecke, S. Gomez-Ruiz, L. Silaghi-Dumitrescu, E. Hey-Hawkins, *Inorg. Chim. Acta*, **2011**, 374(1), 127-133
 45. Designing bis(phosphaalkenyl)germylenes and their tungsten complexes - A theoretical study, T.G. Kocsor, P.M. Petrar, G. Nemes, A. Castel, J. Escudie, N. Deak, L. Silaghi-Dumitrescu, *Computational & Theoretical Chemistry*, **2011**, 974(1-3), 117-12
 46. Coordination Polymers of the Heterotopic 1,4-Phenylene-bis(oxy)diacetic Acid Ligand: Cadmium(II) Complexes, I.G. Grosu, P. Loennecke, L. Silaghi-Dumitrescu, E. Hey-Hawkins, *Z. Anorg. Allgem. Chem.*, **2011**, 637(12), 1722-1727
 47. Heteropolytopic phosphanylthiolato ligands: formation of cis isomers of nickel(ii), palladium(ii) and platinum(ii) complexes with 1-P(Biph)-2-SHC₆H₄ (Biph = 1,1'-biphenyl-2,2'-diyl), A. Hildebrand, I. Sarosi, P. Lonneck, L.Silaghi-Dumitrescu M.B. Sarosi, I. Silaghi-Dumitrescu, E. Hey-Hawkins, *Dalton Transactions* **2012**, 41(25), 7729-7736
 48. Reaction of a heterotopic P,SAs ligand with group 10 metal(II) complexes: As-S bond cleavage and the formation of two unusual trinuclear structural isomers for Pd and Pt, I. Sarosi, A. Hildebrand, P. Lonneck, L.Silaghi-Dumitrescu E. Hey-Hawkins, *Dalton Transactions* **2012**, 41(17), 5326-5333
 49. Heteropolytopic Arsanylthiolato Ligands: Cis-Trans Isomerism of Nickel(II), Palladium(II), and Platinum(II) Complexes of 1-AsPh₂-2-SHC₆H₄, A. Hildebrand, I. Sarosi, P. Lonneck, L.Silaghi-Dumitrescu M.B. Sarosi, I. Silaghi-Dumitrescu, E. Hey-Hawkins, *Inorg.Chem.*, **2012**, DOI:10.1021/ic300002p
 50. The neutral analogue of Roussin's red salt anion: a density functional study, M.B. Sarosi L.Silaghi-Dumitrescu R.B. King, *Phys. Chem. Chem. Phys.* **2012**, 14(17), 5998-6002
 51. Antiproliferative effect of novel platinum(II) and palladium(II) complexes on hepatic tumor stem cells in vitro, N. Miklasova, E. Fischer-Fodor, P. Loennecke, C.I. Tomuleasa, P. Virag, M. Perde Schrepler, R. Miklas, , L.Silaghi-Dumitrescu, E. Hey-Hawkins, *Eur. J. Med. Chem.* **2012**, 49, 41-47
 52. Synthesis, structural investigations, and DFT calculations on novel 3-(1,3-dioxan-2-yl)-10-methyl-10H-phenothiazine derivatives with fluorescence properties, L. Gaina, E. Gal, L. Mataranga-Popa, D. Porumb, A. Nicolescu, C. Cristea L.Silaghi-Dumitrescu, *Tetrahedron* **2012**, 68(11), 2465-2470
 53. E. Gal, B. Brem, I. Pereteanu, L. Gaina, T. Lovasz, M. Perde-Schrepler, L. Silaghi-Dumitrescu, C. Cristea and L. Silaghi-Dumitrescu, Novel Meso-Phenothiazinyl-Porphyrin Dyes: Synthesis, Optical, Electrochemical Properties and PDT assay, *Dyes and Pigments* **2013**, 99, 144-153.
 54. L. I. Găină, L. N. Mățărângă-Popa, E. Gal, P. Boar, P. Lonneck, E. Hey-Hawkins, C. Bischin, R. Silaghi-Dumitrescu, I. Lupan, C. Cristea L. Silaghi-Dumitrescu, Microwave-assisted Catalytic Amination of Phenothiazine-Reliable Access to Phenothiazine Analogues of Troger's Base, *Eur. J. Org. Chem*, **2013**, 24, 5500-5508 DOI 10.1002/ejoc
 55. E. Fischer-Fodor, A-M. Vălean, P. Virag, P. Ilea, C. Tatomir, F. Imre-Lucaci, M. Perde Schrepler, L. T. Krausz, L. Barbu Tudoran, C.G. Precup, I. Lupan, E. Hey-Hawkins, L. Silaghi-Dumitrescu, Gallium phosphinoarylthiolato complexes counteract drug resistance of cancer cells, *Metallomics*, **2014**, 6, 833-844, DOI: 10.1039/C3MT00278K
 56. IH Filip, E Gal, I Lupan, M Perde-Schrepler, P Lonneck, M Surducun, .Tuning the coordination properties of phenothiazine by regioselective introduction of

- diphenylphosphanyl groups, *Dalton Trans.*, **2015**, 44 (2), 615-629
57. M Tertis, Mihael Tertis, A Florea, B Feier, IO Marian, L Silaghi-Dumitrescu., Electrochemical Impedance Studies on Single and Multi-Walled Carbon Nanotubes-Polymer Nanocomposites for Biosensors Development, *J. Nanoscience and Nanotechnology*, **2015**, 15 (5), 3385-3393