

CURRICULUM VITAE



PERSONAL INFORMATION

Name **Luminita Silaghi-Dumitrescu**
Address 11, Arany Janos, 400028 Cluj-Napoca
Tel.
E-mail
Nationality Romanian
Date of birth

PROFESSIONAL EXPERIENCE

- Date January 2008- March 2012
• Name and title of the institution "Babes-Bolyai" University of Cluj-Napoca, Romania
Vice-Rector
- Date 2000 – 2007
• Name and title of the institution "Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Dean
- Date 2002-
• Name and title of the institution "Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Scientific supervision of PhD students
- Date February 1999-
• Name and title of the institution "Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Professor
- Date March 1994-1999
• Name and title of the institution "Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Assoc. Professor
- Date October 1986-1994
• Name and title of the institution "Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Lecturer
- Date February 1978-1986
• Name and title of the institution Institute for Research in Chemistry Cluj-Napoca, Romania
Scientific researcher in chemistry (synthesis and structural characterization of organometallic derivatives)
- Date November 1978-1979
• Name and title of the institution "Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Chemist (synthesis and structural characterization of organometallic derivatives)
- Date November 1975-1978
• Name and title of the institution Plant of silk, Cluj-Napoca, Romania
Chemist
- Date August 1975-October 1975

• Name and title of the institution

Plant of lorry, Brasov, Romania
Chemist

Education and Training

• Date
• Name and title of the institution

1975-1983
"Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Doctor in chemistry

• Specialization

PhD thesis: "DIORGANODITIOARSINAȚI METALICI ȘI ORGANOMETALICI" under
Prof. Dr. Ionel Haiduc (scientific supervision)

• Date

• Name and title of the institution

1974-1975
"Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Master of science in chemistry

• Specialization

• Date

• Name and title of the institution

1970-1974
"Babes-Bolyai" University of Cluj-Napoca, Romania
The Faculty of Chemistry and Chemical Engineering
Chemist

• Specialization

SKILLS AND ABILITIES

Teaching courses:

- Organic Chemistry II
- Organometallic Chemistry
- Organic Chemistry III: Organometallic reagents in the organic synthesis
- Organometallic reagents in heterocyclic chemistry

• Mother tongue

Romanian

• Foreign languages

English – advanced level

French – advanced level

Spanish – medium level

Research interests

- Organometallic chemistry (13, 14, 15 Groups of elements and transitional metals) - synthesis and structural characterization
- Chemistry of the coordinative compounds synthesis and structural characterization
- Organometallic reagents in the organic synthesis (lithium-, magnesium-, titanium- and boron-derivatives)
- Synthesis of new organometallic compounds, precursors for semiconductors
- Synthesis of building blocks for smart polymers (heteroalchene, heteroallenes of heavier Group 14 and 15 elements)

Awards and distinctions

Prize "Costin D. Nenitzescu", Romanian Academy, 1997

Prize "Nenitzescu-Criegiee" German Society of Chemistry and Romanian Academy, 2011

• Social skills

Communication skills – constant contact with people from different environments, conflict management,

• Technical skills

Computer skills

• Additional information

Grants and projects
(2006-2014)

Ability to teach and supervise research activities

Metal derivatives with biomedical applications – METALLOMICS (2010-2013)

Microwave assisted organic and organometallic synthesis - Green Chemistry – MESINEP – (IDEI)

Organometallic reagents and intermediates In stereocontrolled synthesis of relevant biologic compounds– RIOSIN – CEE X

Infrastructure for Applied Organometallic Chemistry Laboratory – ELACOM – CAPACITATI

Group 13/14/15 organometallic precursors for hybrid electronic devices
semiconductor/gold/organic molecules– CNCSIS

TEMPUS Project "Reforms and Upgrade Chemistry Undergraduate Studies
in Macedonia" (2008-2009)– Romanian co-coordinator

DAAD programme, Stability Pact - "Academic Reconstruction of South Eastern Europe"

"International Master and Postgraduate Programme in Materials Science and Catalysis",
Romanian co-coordinator (2006-2012)

Relevant publications
(from over 140)

MC and WG member COST Action CM 802 - European Phosphorus Sciences Network (PhoSciNet) (2009-2012)

MC and WG member COST Action CM 1302 - Smart Inorganic Polymers (SIPs) (2013-2017)

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

Grant Royal Society of Chemistry (1998)

Chemistry Department, Oxford University (Anglia)

Chemistry Department, Bath University (Anglia)

Chemistry Department, Nottingham University (Anglia)

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 $[\text{Ph}_2\text{As}(\text{O})\text{OH}\cdot\text{Ph}_2\text{As}(\text{S})\text{SH}]_2$, 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*, 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 Dithiochelatate 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 $(AsPh_2)_2O$: 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*- $SnCl_4(AsPh_3)_2$ and $SnBr_4(AsPh_3)_2$. 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 $ArSbCCR_2$. 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-phosphaethenylthiolum Compound, $RCI_2SiC(Li)=Pmes^*$, G. Cretiu Nemes, H. Ranaivonjatovo, J. Escudie, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, H. Gornitzka, *Eur. J. Inorg. Chem.*, **2005**, 1109-1113
 22. Difluorenylsilanes, -germanes, 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 $(Me_3Si)_2C:P(Mes^*):C(Cl)As(F)Mes^*$, 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)phenoarsine (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 phosphanylarythiolato complexes $[W\{PhP(2-SC_6H_4)_2-k_3S,S',P\}_2]$ and $[W\{P(2-SC_6H_4)_3-k_4S,S',S'',P\}_2]$: 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 Arsinoarythiolato 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 $PPh(2-SC_6H_4)_2$, 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 phosphanylarylthiolato ligands [Rh(μ -S-2-EPh₂C₆H₄-k₂S,E)2Rh(cod)] (E = As, P), A. Hildebrand, M.B. Sarosi, P. Lonnecke, 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. Lonnecke, 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. Lonnecke, L. Silaghi-Dumitrescu, E. Hey-Hawkins, *Z. Anorg. Allgem. Chem.*, **2011**, *637*(12), 1722-1727
 47. Heteropolytopic phosphanylarylthiolato 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. Lonnecke, 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. Lonnecke, L. Silaghi-Dumitrescu E. Hey-Hawkins, *Dalton Transactions* **2012**, *41*(17), 5326-5333
 49. Heteropolytopic Arsanylarylthiolato Ligands: Cis-Trans Isomerism of Nickel(II), Palladium(II), and Platinum(II) Complexes of 1-AsPh₂-2-SHC₆H₄, A. Hildebrand, I. Sarosi, P. Lonnecke, 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. Lonnecke, 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. Mătărăngă-Popa, E. Gal, P. Boar, P. Lonnecke, 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/efoc
 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 phosphinoarylbisthiolato 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 Lonnecke, M Surducan, .Tuning the coordination properties of phenothiazine by regioselective introduction of diphenylphosphanyl groups, *Dalton Trans.*, **2015**, 44 (2), 615-629
57. M Tertis, MihaelTertis, 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