



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **SILVESTRU CRISTIAN**  
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E-mail -  
Nationality Romanian  
Date of birth -  
Gender M

### Desired employment / Occupational field

#### Work experience

Dates	1995-present
Occupation or position held	Professor
Main activities and responsibilities	Lectures, seminars, research in inorganic and organometallic chemistry
Name and address of employer	Babes-Bolyai University, M. Kogalniceanu no. 1, Cluj-Napoca, RO-400028
Type of business or sector	Teaching and research
Dates	1993-1995
Occupation or position held	Associate Professor (reader)
Main activities and responsibilities	Lectures, seminars and practical works, research in inorganic and organometallic chemistry
Name and address of employer	Babes-Bolyai University, M. Kogalniceanu no. 1, Cluj-Napoca, RO-400028
Type of business or sector	Teaching and research
Dates	1990-1993
Occupation or position held	Lecturer
Main activities and responsibilities	Lectures, seminars and practical works, research in inorganic and organometallic chemistry
Name and address of employer	Babes-Bolyai University, M. Kogalniceanu no. 1, Cluj-Napoca, RO-400028
Type of business or sector	Teaching and research
Dates	1989-1990
Occupation or position held	Scientific researcher in chemistry
Main activities and responsibilities	Research in inorganic and organometallic chemistry
Name and address of employer	Babes-Bolyai University, M. Kogalniceanu no. 1, Cluj-Napoca, RO-400028
Type of business or sector	Research

Dates	1982-1989
Occupation or position held	Scientific researcher in chemistry
Main activities and responsibilities	Research on basis of contracts with industrial companies
Name and address of employer	Institute for Chemical and Biochemical Chemistry, Cluj-Napoca Branch, Babes-Bolyai University, M. Kogalniceanu no. 1, Cluj-Napoca, RO-400028
Type of business or sector	Research
Dates	1980-1982
Occupation or position held	Chemist
Main activities and responsibilities	Laboratory analyses
Name and address of employer	Mining company "Aghires", Aghires, Cluj county
Type of business or sector	Refractory sand and caolin production, laboratory analyses

### Education and training

Dates	Oct. 1985 – Apr. 1990
Title of qualification awarded	PhD in chemistry
Principal subjects/occupational skills covered	Inorganic and organometallic chemistry
Name and type of organisation providing education and training	Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Inorganic Chemistry Department, Cluj-Napoca, Romania
Level in national or international classification	6
Dates	Sept. 1979 – July 1980
Title of qualification awarded	MSc in Inorganic Chemistry
Principal subjects/occupational skills covered	Inorganic and organometallic chemistry
Name and type of organisation providing education and training	Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Inorganic Chemistry Department, Cluj-Napoca, Romania
Level in national or international classification	6
Dates	Sept. 1975 – July 1979
Title of qualification awarded	BSc in chemistry
Principal subjects/occupational skills covered	Chemistry
Name and type of organisation providing education and training	Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Inorganic Chemistry Department, Cluj-Napoca, Romania
Level in national or international classification	5

### Personal skills and competences

- Research stays at:
- Bremen Universität (Germany) (visiting professor – 1993, 3 months)
  - Vrije Universiteit Brussel (Belgium) (EC COST grant – 1993, 2 months)
  - Instituto de Quimica, Universidad Nacional Autonoma de Mexico (Mexico) (visiting professor – 1993-1995, 2 years)
  - Oxford University (UK) (grant for International Journal Authors, Royal Society of Chemistry – 1999, 2 months)
  - Michigan State University (USA) (visiting research associate – 2000, 5 months)
  - Universidad de Zaragoza (Spain) (NATO fellowship – 2004, 9 months)

invited lectures (selection):

- "Recent Developments in Organometallic Chemistry of Hypervalent Group 15 (Sb, Bi) Compounds" – invited lecture presented at Heidelberg Universität (Germany), Università di Cagliari (Italy) (2006).
- "Organopnicogen Compounds (M = Sb, Bi) as Ligands in Transition Metal Chemistry" – invited lecture presented at Bremen Universität (Germany) (2008).
- "Recent Results in the Hypervalent Organometallic Chemistry - Organopnicogen Compounds (M = Sb, Bi) as Ligands in Transition Metal Chemistry" – invited lecture presented at Universidad de Zaragoza (Spain), Jacobs University (Germany), Università di Cagliari (Italy) (2009); University of Ioannina (Greece), Technische Universität Chemnitz, Essen-Duisburg Universität, *GAMBRINUS Lecture* at Technische Universität Dortmund (Germany) (2010).
- "Hypercoordinated Organopnicogen (M = Sb, Bi) Compounds – Monomeric Species, Oligomers and Supramolecular Networks" – invited lecture presented at Ludwig-Maximilians-Universität München (Germany) (2010).

Mother tongue(s) Romanian

Other language(s) English, Spanish, French

Self-assessment <i>European level</i> (*)	Understanding		Speaking		Writing	
	Listening	Reading	Spoken interaction	Spoken production		
English	C1	C2	C2		C1	C1
Spanish	C1	C2	C2		C2	B2
French	C1	C2	B2		B2	A2

(\*) *Common European Framework of Reference for Languages*

Social skills and competences Excellent and very good relationship with the other members of the teaching and research staff of the Faculty and University, with colleagues from other research groups I collaborated abroad or with the members (undergraduate students, MSc and PhD students, or researchers) of my research group

- Organisational skills and competences
- PhD adviser from 1998 (18 thesis defended to obtain the PhD degree)
  - Co-director (with Prof. Dr. Ion Grosu) of THE CENTRE OF SUPRAMOLECULAR ORGANIC AND ORGANOMETALLIC CHEMISTRY – CSOOMC. Within this research centre I coordinate the activity of a research group with 3 members of the teaching staff, 4 researchers, 8-10 PhD students, several undergraduate and master students (see WEB page: <http://www.chem.ubbcluj.ro/~ccsoom/organometallic/index.html>)
  - I organized the NATIONAL CENTRE FOR X-RAY DIFFRACTOMETRY (Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-Napoca), based on a MURC (Multi-User Research Centre) grant offered by the World Bank through the Romanian Minister of Education and Research
  - I coordinated the activity on the basis of which 3 research labs were fully equipped to allow researches in organometallic synthesis, including works with air- and moisture-sensitive compounds, as well as other 2 teaching labs designed for inorganic, coordination and organometallic chemistry (vezi WEB page: <http://www.chem.ubbcluj.ro/~ccsoom/organometallic/index.html>)

#### Management Experience:

- Co-director of the project „*Hypervalenz*” (with Prof. Dr. Hans J. Breunig, Bremen Universität, Germany), financed by Deutsches Forschungs Gemeinschaft (2001 – 2003)
- Director of several multi-annual research projects obtained by competition through the National University Research Council, including World Bank grants, Romanian Academy, National Authority for Scientific Research, in the period 1995 – 2014
- Director and coordinator of the project "*Specific Techniques in the Investigation of Organometallic Compounds. Professional education and implementation strategies*" (RO/2004/PL93192/S), within the LEONARDO DA VINCI program of EU (2005-2006)
- Director of the NATIONAL CENTRE FOR X-RAY DIFFRACTOMETRY (Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-Napoca) (2001 – present)
- Vice-Dean of the Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University (1996 - 2000)
- Director of the Inorganic Chemistry Department, Faculty of Chemistry and Chemical Engineering (2011 - 2012)
- Director of the Chemistry Department, Faculty of Chemistry and Chemical Engineering (2012 - present)
- President of the Committee for Chemistry and Chemical Engineering / Panel 1 – Mathematics and Natural Sciences - CNATDCU (2011 - 2012)

Technical skills and competences	<p><b>Publications:</b></p> <ul style="list-style-type: none"> <li>- 2 books (co-author Prof. Dr. Ionel Haiduc)</li> <li>- 4 book chapters</li> <li>- 211 scientific articles (181 in foreign specialized journals, 30 in national journals – more than 200 papers in ISI journals)</li> </ul> <p>Hirsch index = 30                      Total number of citations = 3024  (Web of Science – Thomson Reuters - April 12, 2016)</p> <p><a href="http://www.researcherid.com/rid/A-3832-2010">http://www.researcherid.com/rid/A-3832-2010</a></p> <p><b>Member of Romanian Society of Chemistry</b></p> <p><b>Editorial activity:</b></p> <ul style="list-style-type: none"> <li>- editor for Organometallic Chemistry at <i>Central European Journal of Chemistry</i> (<a href="http://www.versita.com/cejc/editors/">http://www.versita.com/cejc/editors/</a> )</li> <li>- member in the Editorial Board of <i>Revue Roumaine de Chimie</i> (<a href="http://revroum.getion.ro/editorial-board">http://revroum.getion.ro/editorial-board</a> )</li> <li>- member in the Editorial Board of <i>Studia Universitatis Babes-Bolyai, Seria Chemia</i> (<a href="http://chem.ubbcluj.ro/~studiachemia/">http://chem.ubbcluj.ro/~studiachemia/</a> )</li> <li>- member in the Editorial Board of <i>Revista de Politica Stiintei si Scientometrie (RPSS)</i> (<a href="http://rpss.inoe.ro/editorial">http://rpss.inoe.ro/editorial</a> )</li> </ul> <p><b>Experience in postdoctoral projects:</b></p> <ul style="list-style-type: none"> <li>- I coordinated the research activity of several foreign PhD students (Germany, Spain, Greece) within research stays financed through the project „<b>Homo and Hetero Metal-Metal Bond-Containing Organometallic Compounds</b> - <b>HOHEORGMET</b>” [Contract nr. 19 / 2006] (2006-2007)</li> <li>- I coordinated the research activity of 4 postdocs (including a foreign one)</li> </ul>
Computer skills and competences	MS Office, Graphics software (to a certain extent), Chemistry related software (software for various spectrometric methods, drawing and editing software)
Other skills and competences	<ul style="list-style-type: none"> <li>- <b>Corresponding Member of the Romanian Academy</b> (from 2009)</li> <li>- "Gh. Spacu" Award of the Romanian Academy for studies on the antitumor properties of organometallic compounds (1992 - co-authors: Dr. Carmen Socaciu and Dr. Adela Bara)</li> <li>- "Gh. Spacu" Award of the Romanian Society of Chemistry, for the whole activity in the field of chemical sciences (2011 – International Year of Chemistry)</li> <li>- "Senior al Cetatii" distinction, Cluj-Napoca, 2009</li> <li>- <i>Grant for International Journal Authors</i>, Royal Society of Chemistry (1999) provided for a visit at the Chemistry Department, Oxford University (UK) (Malcolm L. H. Green's research group)</li> <li>- <i>Gambrinus Fellowship</i>, Technische Universität Dortmund (Germany) (2010)</li> </ul>
<b>Additional information</b>	-
<b>Annexes</b>	Full List of publications – on request

Cluj Napoca  
April 12, 2016

Prof. Dr. Cristian SILVESTRU

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## PUBLICATION LIST

Hirsch index = 30

Sum of the Times Cited = 3024

Sum of Times Cited without self-citations = 2387

(Web of Science – Thomson Reuters - April 12, 2016)

<http://www.researcherid.com/rid/A-3832-2010>

### I. BOOKS

1. ORGANOMETALLICS IN CANCER CHEMOTHERAPY. VOL.I.  
MAIN GROUP METAL COMPOUNDS,  
Ionel Haiduc and Cristian Silvestru,  
CRC Press, Boca Raton, Florida, USA, 1989, 256 pag.  
ISBN 0-8493-5867-1
2. ORGANOMETALLICS IN CANCER CHEMOTHERAPY. VOL.II.  
TRANSITION METAL COMPOUNDS,  
Ionel Haiduc and Cristian Silvestru,  
CRC Press, Boca Raton, Florida, USA, 1990, 366 pag.  
ISBN 0-8493-5868-X

### II. BOOK CHAPTERS

1. Supramolecular associations in organotin, organoantimony and other main group organometallic compounds,  
I. Haiduc and C. Silvestru,  
in "Main Group Elements and Their Compounds", V.G. Kumar Das (Ed.), Narosa Publ. House, New Delhi, India, 1996, p. 355-369; ISBN 81-7319-071-2
2. Organoantimony(III) compounds: a new class of organometallic antitumour agents,  
C. Silvestru and I. Haiduc,  
in "Main Group Elements and Their Compounds", V.G. Kumar Das (Ed.), Narosa Publ. House, New Delhi, India, 1996, p. 453-462; ISBN 81-7319-071-2
3. Gold-Heterometal Interactions and Bonds,  
C. Silvestru,  
in *Modern Supramolecular Gold Chemistry: Gold-Metal Interactions and Applications*,  
A. Laguna (Ed.), Wiley-VCH, New York – Weinheim, 2008, Chapter 4, p. 181-293.  
ISBN 978-3-527-32029-5

4. The Chemistry of Gold-Metal Bonds,  
C. Silvestru and A. Laguna,  
in *The Chemistry of Organogold Compounds*,  
Z. Rappoport, J. F. Liebman, I. Marek (Eds.), John Wiley & Sons, Ltd: Chichester, UK, 2014, pp. 409-526.  
ISBN 978-1-118-43873-2

### III. SCIENTIFIC PUBLICATIONS

1. Coordination and organometallic compounds in cancer chemotherapy, (Combi-națiile coordinative și organometalice în chimioterapie cancerului), C. Silvestru and I. Haiduc, *Rev. Chim. (Bucuresti)*, **1982**, 33, 81-88.
2. Organotin compounds: new organometallic derivatives exhibiting antitumor activity, I. Haiduc, C. Silvestru and M. Gielen, *Bull. Soc. Chim. Belg.*, **1983**, 92, 187-189.
3. Unconventional preparations in cancer chemotherapy, (Preparate neconvenționale în chimioterapie cancerului), I. Haiduc and C. Silvestru, in "Colectia Enciclopedia Oncologica", Vol.12 - "Cancer - Chimioterapie actuala", **1983**, 133-144.
4. Diphenylantimony(V) trichloride, I. Haiduc and C. Silvestru, *Inorg. Synth.*, **1985**, 23, 194-195.
5. Synthesis of diphenylantimony(III) dialkyldithio- and diaryldithiophosphinates 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 and D. B. Sowerby, *J. Chem. Soc., Dalton Trans.*, **1986**, 1031-1034.  
DOI: 10.1039/DT9860001031
6. Diphenylantimony(III) diphenylphosphinate and diphenylmonothiophosphinate: synthesis, spectra and crystal structure, M. J. Begley, D. B. Sowerby, D. M. Wesolek, I. Haiduc and C. Silvestru. *J. Organomet. Chem.*, **1986**, 316, 281-289.  
DOI: 10.1016/0022-328X(86)80497-1
7. Synthesis and characterization of di- and triorganotin(IV) diethyldithiophosphinates. The crystal and molecular structure of bis(diethyldithiophosphinato)dimethyltin(IV),  $\text{Me}_2\text{Sn}(\text{S}_2\text{PEt}_2)_2$ , C. Silvestru, I. Haiduc, S. Klima, U. Thewalt, M. Gielen and J. J. Zuckerman, *J. Organomet. Chem.*, **1987**, 327, 181-191.  
DOI: 10.1016/0022-328X(87)80203-6
8. Di- and triorganotin(IV) diphenyldithiophosphinates, C. Silvestru, F. Ilies, I. Haiduc, M. Gielen and J. J. Zuckerman, *J. Organomet. Chem.*, **1987**, 330, 315-324.  
DOI: 10.1016/S0022-328X(00)99045-4
9. Synthesis and characterization of di- and triorganotin(IV) dimethyldithiophosphinates, C. Silvestru and I. Haiduc, *J. Organomet. Chem.*, **1989**, 365, 83-90.  
DOI: 10.1016/0022-328X(89)87169-4
10. Rhodium, iridium, copper and gold antitumor organometallic compounds, I. Haiduc and C. Silvestru, *In Vivo*, **1989**, 3, 285-294.
11. Organotin(IV) diphenylphosphinates, C. Silvestru, F. Ilies and I. Haiduc, *Studia Univ. "Babes-Bolyai", Chemia*, **1989**, 34(1), 93-96.
12. The first organoantimony(III) compounds possessing antitumor properties: diphenylantimony(III) derivatives of dithiophosphorus ligands, C. Silvestru, C. Socaciu, A. Bara and I. Haiduc, *Anticancer Res.*, **1990**, 10, 803-804.
13. Metal compounds in cancer chemotherapy, I. Haiduc and C. Silvestru, *Coord. Chem. Rev.*, **1990**, 99, 253-296.  
DOI: 10.1016/0010-8545(90)80065-2

14. Antitumor organometallics. I. Activity of some diphenyltin(IV) and diphenylantimony(III) derivatives on *in vitro* and *in vivo* Ehrlich ascites tumor, A. Bara, C. Socaciu, C. Silvestru and I. Haiduc, *Anticancer Res.*, **1991**, *11*, 1651-1656.
15. Antitumor organometallics. II. Inhibitory effects of two diphenylantimony(III) dithiophosphorus derivatives on *in vitro* and *in vivo* Ehrlich ascites tumor, C. Socaciu, A. Bara, C. Silvestru and I. Haiduc, *In Vivo*, **1991**, *5*, 425-428.
16. Di- and triorganotin(IV) diphenylphosphinates,  $R_{4-n}Sn(O_2PPh_2)_n$ . Structural considerations based upon  $^{119m}Sn$ -Mössbauer spectra, C. Silvestru, I. Haiduc, B. Mahieu and M. Gielen, *Main Group Metal Chem.*, **1991**, *14*, 257-262.
17. Phenylantimony(III) diorganophosphorodithioates: the crystal structure of diphenylantimony(III) di-isopropylphosphorodithioate,  $Ph_2SbS_2P(OPr^i)_2$ ; unusual polymerization through semibonding, C. Silvestru, M. Curtui, I. Haiduc, M. J. Begley and D. B. Sowerby, *J. Organomet. Chem.*, **1992**, *426*, 49-58.  
DOI: 10.1016/0022-328X(92)83160-J

### 1993

18. A new inorganic metallocycle containing tin, sulfur, phosphorus and nitrogen. Crystal and molecular structure of spirobicyclic  $Me_2Sn(SPPH_2NPPH_2S)_2$ , I. Haiduc, C. Silvestru, H. W. Roesky, H.-G. Schmidt and M. Noltemeyer, *Polyhedron*, **1993**, *12*, 69-75.  
DOI: 10.1016/S0277-5387(00)87055-2
19. Organotin diphenylmonothiophosphinates. Crystal structure of bis(diphenylmonothiophosphinato)-dimethyltin(IV),  $Me_2Sn(OSPPh_2)_2$ , C. Silvestru, I. Haiduc, F. Caruso, M. Rossi, B. Mahieu and M. Gielen, *J. Organomet. Chem.*, **1993**, *448*, 75-82.  
DOI: 10.1016/0022-328X(93)80070-R
20. A unique macrocyclic structure of tetrameric trimethyl(IV) diphenylphosphinate,  $[Me_3SnO_2PPh_2]_4$ , containing a sixteen-membered  $Sn_4O_8P_4$  inorganic ring, M. G. Newton, I. Haiduc, R. B. King and C. Silvestru, *J. Chem. Soc., Chem. Commun.*, **1993**, 1229-1930.  
DOI: 10.1039/C39930001229
21. Synthesis, spectroscopic characterization, and molecular structure of dimeric (diethylthiophosphinato)di(para-tolyl)antimony(III),  $[(p-CH_3C_6H_4)_2SbS_2P(C_2H_5)_2]_2$ , containing a novel monocyclic  $P_2S_4Sb_2$  inorganic ring system, formed through  $Sb \cdots S$  semibonding interactions, C. Silvestru, I. Haiduc, R. Kaller, K. H. Ebert and H. J. Breunig, *Polyhedron*, **1993**, *12*, 2611-2617.  
DOI: 10.1016/S0277-5387(00)80088-1
22. Synthesis and characterization of some new organotin(IV) derivatives of tetraphenylthioimidodiphosphinic acid, R. Rösler, C. Silvestru, I. Haiduc, M. Gielen, F. Kayser and B. Mahieu, *Main Group Metal Chem.*, **1993**, *16*, 435-443.

### 1994

23. Bismuth(III) dimethylthiophosphinate,  $Bi(S_2PMe_2)_3$ : another dimer formed through secondary bonding. The stereochemically active lone pair revisited, F. T. Edelman, M. Noltemeyer, I. Haiduc, C. Silvestru and R. Cea-Olivares, *Polyhedron*, **1994**, *13*, 547-552.  
DOI: 10.1016/S0277-5387(00)84730-0
24. Organotin(IV) diethylmonothiophosphinates. The structure of molecular, monomeric  $Me_2Sn(OSPEt_2)_2$  versus polymeric  $Me_2Sn(OSPPh_2)_2$ , I. Haiduc, C. Silvestru, F. Caruso, M. Rossi and M. Gielen, *Rev. Roum. Chim.*, **1994**, *39*, 53-64.



25. Trimethylantimony(V) diorganomonothiophosphinates. The crystal and molecular structure of bis(diphenylmonothiophosphinato)trimethylantimony(V),  $\text{Me}_3\text{Sb}(\text{OSPPH}_2)_2$ , containing a rarely monodentate thiophosphinato ligand,  
C. Silvestru, I. Haiduc, K. H. Ebert, H. J. Breunig and D. B. Sowerby,  
*J. Organomet. Chem.*, **1994**, *468*, 113-119.  
DOI: 10.1016/0022-328X(94)80038-3
26. Crystal and molecular structure of bis(diphenyldithiophosphinato)lead(II),  $[\text{Pb}(\text{S}_2\text{PPh}_2)_2]_n$ , a new type of polymer associated through  $\text{Pb}^{\text{II}}\cdots\text{S}$  secondary interactions,  
K. H. Ebert, H. J. Breunig, C. Silvestru, I. Stefan and I. Haiduc,  
*Inorg. Chem.*, **1994**, *33*, 1695-1699.  
DOI: 10.1021/ic00086a020
27. Synthesis and structures of dimesitylbismuth(III) bromide,  $\text{Mes}_2\text{BiBr}$ , and bis(diphenyldithiophosphinato)mesitylbismuth(III),  $\text{MesBi}(\text{S}_2\text{PPh}_2)_2$ .  
K. H. Ebert, R. E. Schulz, H. J. Breunig, C. Silvestru and I. Haiduc,  
*J. Organomet. Chem.*, **1994**, *470*, 93-98.  
DOI: 10.1016/0022-328X(94)80152-5
28. Antitumor organometallics. III. *In vivo* activity of diphenylantimony(III) and diorganotin(IV) dithiophosphorus derivatives against P388 leukemia,  
B. K. Keppler, C. Silvestru and I. Haiduc,  
*Metal-Based Drugs*, **1994**, *1*, 73-77.  
DOI: 10.1155/MBD.1994.73
29. Organo-antimony(V) and -antimony(III) derivatives of diorganodithiophosphinato ligands. Synthesis, spectroscopic characterization, and X-ray molecular structure of  $\text{Me}_3\text{Sb}(\text{S}_2\text{PPh}_2)_2$ .  
C. Silvestru, D. B. Sowerby, I. Haiduc, K. H. Ebert and H. J. Breunig  
*Main Group Metal Chem.*, **1994**, *17*, 505-518.
30. Synthesis and characterization of 10-(diorganophosphinodithioato)phenoxarsines. A folded phenoxarsine system in the first dimeric organoarsenic(III) 1,1-dithiolate associated through  $\text{As}^{\text{III}}\cdots\text{S}$  secondary bonding,  
R. Cea-Olivares, J.-G. Alvarado, G. Espinosa-Perez, C. Silvestru and I. Haiduc,  
*J. Chem. Soc., Dalton Trans.*, **1994**, 2191-2195.  
DOI: 10.1039/DT9940002191
31. Crystal and molecular structure of (dimethyldithiophosphinato)dimethylantimony(III),  $[\text{Me}_2\text{SbS}_2\text{PMe}_2]_n$ , a chain polymer built through secondary, intermolecular  $\text{Sb}^{\text{III}}\cdots\text{S}$  interactions,  
K. H. Ebert, H. J. Breunig, C. Silvestru and I. Haiduc,  
*Polyhedron*, **1994**, *13*, 2531-2535.  
DOI: 10.1016/S0277-5387(00)83095-8
32. New organotin(IV) derivatives of 1-phenyl-1H-tetrazole-5-thiol. Crystal and molecular structure of  $[\text{Bz}_3\text{SnSCN}_4\text{Ph}]_n$ , a polymer built through secondary intermolecular  $\text{Sn}^{\text{IV}}\cdots\text{N}$  bonds,  
R. Cea-Olivares, O. Jimenez Sandoval, G. Espinosa-Perez and C. Silvestru,  
*Polyhedron*, **1994**, *13*, 2809-2818.  
DOI: 10.1016/S0277-5387(00)83441-5
33. Antitumor organometallics. IV. The mutagenic potential of some diphenylantimony(III) dithiophosphorus derivatives,  
C. Socaciu, I. Pasca, C. Silvestru, A. Bara and I. Haiduc,  
*Metal-Based Drugs*, **1994**, *1*, 291-298.  
DOI: 10.1155/MBD.1994.291a
34. Crystal and molecular structure of 1-phenyl-1H-tetrazole-5-thiolato-trimethyltin(IV),  $\text{Me}_3\text{SnSCN}_4\text{Ph}$ , exhibiting unusual trimeric associations through intermolecular  $\text{Sn}^{\text{IV}}\cdots\text{N}$  bonds,  
R. Cea-Olivares, O. Jimenez Sandoval, G. Espinosa-Perez and C. Silvestru,  
*J. Organomet. Chem.*, **1994**, *484*, 33-36.  
DOI: 10.1016/0022-328X(94)87182-5

35. Phenyllead(IV) diorganophosphinodithioates,  $\text{Ph}_n\text{Pb}(\text{S}_2\text{PR}_2)_{4-n}$ . Synthesis, spectroscopic characterization and NMR study of the redistribution/decomposition of diphenyllead(IV) derivatives.  
C. Silvestru, A. Silvestru, I. Haiduc, R. Gavino Ramirez and R. Cea-Olivares,  
*Heteroatom Chem.*, **1994**, *5*, 327-336.  
DOI: 10.1002/hc.520050403
36. Diorganotin(IV) derivatives of tetraphenylimidodiphosphinic acid. Crystal and molecular structure of  $n\text{-Bu}_2\text{Sn}[(\text{OPPh}_2)_2\text{N}]_2$ , a *trans*-octahedral spirobicyclic compound,  
C. Silvestru, I. Haiduc, R. Cea-Olivares and A. Zimbron,  
*Polyhedron*, **1994**, *13*, 3159-3165.  
DOI: 10.1016/S0277-5387(00)83378-1
37. New organotin(IV) derivatives of 1-phenyl-1H-tetrazole-5-thiol, a five-membered nitrogen heterocycle,  
O. Jimenez Sandoval, R. Cea-Olivares, I. Haiduc, C. Silvestru and G. Espinosa-Perez,  
*Phosphorus, Sulfur & Silicon*, **1994**, *93-94*, 387-388.  
DOI: 10.1080/10426509408021869

### 1995

38. A new eight-membered  $\text{Pb}_2\text{S}_4\text{P}_2$  inorganic ring. Crystal and molecular structure of dimeric  $[\text{Pb}(\text{S}_2\text{PMe}_2)_2]_2$ , associated into polymeric chains through *intermolecular*  $\text{Pb}^{\text{II}}\cdots\text{S}$  interactions,  
C. Silvestru, I. Haiduc, R. Cea-Olivares and S. Hernandez-Ortega,  
*Inorg. Chim. Acta*, **1995**, *233*, 151-154.  
DOI: 10.1016/0020-1693(94)04446-3
39. X-ray crystal structure of (tetraphenyldithioimidodiphosphinato)(triphenylphosphine)copper(I),  $(\text{Ph}_3\text{P})\text{Cu}(\text{SPPPh}_2)_2\text{N}$ , a monocyclic inorganic (carbon-free) chelate ring compound,  
I. Haiduc, R. Cea-Olivares, R. A. Toscano and C. Silvestru,  
*Polyhedron*, **1995**, *14*, 1067-1071.  
DOI: 10.1016/0277-5387(94)00342-C
40. Solid state supramolecular structure of (tetraphenyldithioimidodiphosphinato)trimethyltin(IV).benzene,  $[\text{Me}_3\text{Sn}(\text{SPPPh}_2)_2\text{N}\cdot\text{C}_6\text{H}_6]_n$ , a unique polymer containing a bridging  $-\text{SPR}_2\text{NPR}_2\text{S}-$  ligand,  
K. C. Molloy, M. Mahon, I. Haiduc and C. Silvestru,  
*Polyhedron*, **1995**, *14*, 1169-1174.  
DOI: 10.1016/0277-5387(94)00385-R
41. Crystal and molecular structure of tetramethyldithioimidodiphosphinic acid,  $(\text{SPMe}_2)_2\text{NH}$ , and its cobalt(II) complex,  $\text{Co}[(\text{SPMe}_2)_2\text{N}]_2$ , containing a tetrahedral  $\text{CoS}_4$  core,  
C. Silvestru, R. Rösler, I. Haiduc, R. Cea-Olivares and G. Espinosa-Perez,  
*Inorg. Chem.*, **1995**, *34*, 3352-3354.  
DOI: 10.1021/ic00116a030
42. On the 5-thia-(substituted)-1-oxa-4,6-dithia-5-stibocanes. Synthesis and characterization of  $\text{O}(\text{CH}_2\text{CH}_2\text{S})_2\text{SbS}_2\text{P}(\text{OC}_2\text{H}_5)_2$ , and crystal and molecular structure of  $\text{O}(\text{CH}_2\text{CH}_2\text{S})_2\text{Sb-SCH}_2\text{CH}_2\text{O-CH}_2\text{CH}_2\text{S-Sb}(\text{SCH}_2\text{CH}_2)_2\text{O}$ , a compound with two different 8-membered ring conformations,  
R. Cea-Olivares, M.-A. Munoz-Hernandez, S. Hernandez-Ortega and C. Silvestru,  
*Inorg. Chim. Acta*, **1995**, *236*, 31-36.  
DOI: 10.1016/0020-1693(95)04602-6
43. Synthesis and structural characterization of phenoxarsin-10-yl dithiocarbamates.  $\text{O}(\text{C}_6\text{H}_4)_2\text{AsS}_2\text{CN}(\text{CH}_2\text{CH}_2)_2$ , a compound containing an asymmetric mononuclear biconnective 1,1-dithiolato ligand,  
R. Cea-Olivares, R. A. Toscano, C. Silvestru, P. Garcia, M. Lopez, G. Blass-Amador and H. Nöth,  
*J. Organomet. Chem.*, **1995**, *493*, 61-68.  
DOI: 10.1016/0022-328X(95)05342-M
44. Synthesis, spectroscopic characterization and crystal and molecular structure of tetrakis(carbonyl)-(tetraphenyldithioimidodiphosphinato)manganese(I),  $\text{Mn}(\text{CO})_4[(\text{SPPPh}_2)_2\text{N}]$ ,  
N. Zuniga-Villareal, C. Silvestru, M. Reyes Lezama, S. Hernandez-Ortega and C. Alvarez Toledano,  
*J. Organomet. Chem.*, **1995**, *496*, 169-174.  
DOI: 10.1016/0022-328X(95)05414-K

45. Synthesis and characterization of phenoxarsin-10-yl-2-R<sub>2</sub>N-cyclopent-1-ene-1-carbodithioate (R = H, C<sub>2</sub>H<sub>5</sub>, cyclo-C<sub>6</sub>H<sub>11</sub>CH<sub>2</sub>) and crystal and molecular structure of the 2-amino (R = H) derivative, R. Cea-Olivares, R. A. Toscano, M. R. Estrada, C. Silvestru, P. Garcia, M. Lopez and G. Blass, *Appl. Organomet. Chem.*, **1995**, *9*, 133-140.  
DOI: 10.1002/aoc.590090207
46. Unexpected linear P-N-P fragment in the anion [SP<sub>2</sub>PNPPh<sub>2</sub>S]<sup>-</sup>. Crystal structure of bis(triphenylphosphine)iminium dithiotetraphenylimidodiphosphinate [Ph<sub>3</sub>PNPPh<sub>3</sub>]<sup>+</sup>[SP<sub>2</sub>PNPPh<sub>2</sub>S]<sup>-</sup>, I. Haiduc, R. Cea-Olivares, S. Hernandez-Ortega and C. Silvestru, *Polyhedron*, **1995**, *14*, 2041-2046.  
DOI: 10.1016/0277-5387(95)00038-T
47. Synthesis and characterization of triphenylgermanium(IV) diorganophosphinodithioates. Crystal and molecular structures of Ph<sub>3</sub>GeS(S)PR<sub>2</sub> (R = Me, Ph), C. Silvestru, R. A. Toscano, A. Silvestru, J. Cardenas, I. Haiduc and R. Cea-Olivares, *Polyhedron*, **1995**, *14*, 2231-2237.  
DOI: 10.1016/0277-5387(94)00495-Z
48. Crystal structures of antimony and indium phosphinodithioates, M(S<sub>2</sub>PR<sub>2</sub>)<sub>3</sub>, (M = Sb, R = Et; M = In, R = Me and Ph). Is the lone pair responsible for the structural differences?, J. Zuckerman-Schpector, I. Haiduc, C. Silvestru and R. Cea-Olivares, *Polyhedron*, **1995**, *14*, 3087-3094.  
DOI: 10.1016/0277-5387(95)00094-9
49. Synthesis, structural characterization and *in vitro* antitumor properties of triorganoantimony(V) disalicylates. Crystal and molecular structures of [5-Y-2-(HO)-C<sub>6</sub>H<sub>3</sub>COO]<sub>2</sub>SbMe<sub>3</sub> (Y = H, Me, MeO), C. Silvestru, I. Haiduc, E. R. T. Tiekink, D. de Vos, M. Biessemans, R. Willem and M. Gielen, *Appl. Organomet. Chem.*, **1995**, *9*, 597-607.  
DOI: 10.1021/ic00128a027
50. Cleavage of bis(thiophosphinyl)disulfanes, R<sub>2</sub>P(S)SSP(S)R<sub>2</sub> (R = Et, Ph), by a low-valent palladium dimer, R. Landtiser, J. T. Mague, M. J. Fink, C. Silvestru and I. Haiduc, *Inorg. Chem.*, **1995**, *34*, 6141-6144.  
DOI: 10.1021/ic00128a027

### 1996

51. Tetrahedral *v.s.* square-planar NiS<sub>4</sub> core in solid state bis(dithioimidodiphosphinato) nickel(II) chelates. Crystal and molecular structure of Ni[(SPR<sub>2</sub>)(SPPH<sub>2</sub>)<sub>2</sub>N]<sub>2</sub> (R = Ph, Me), R. Rösler, C. Silvestru, G. Espinosa-Perez, I. Haiduc and R. Cea-Olivares, *Inorg. Chim. Acta*, **1996**, *241*, 47-54.  
DOI: 10.1016/0020-1693(95)04739-5
52. Gallium and indium compounds of sulphur donor ligands: pyridine-2-thiolates and diphenylthiophosphinates, C. C. Landry, A. Hynes, A. R. Barron, I. Haiduc and C. Silvestru, *Polyhedron*, **1996**, *15*, 391-402.  
DOI: 10.1016/0277-5387(95)00253-O
53. Structural patterns in inorganic and organoantimony derivatives of oxo- and thiodiorganophosphorus ligands, C. Silvestru and I. Haiduc, *Coord. Chem. Rev.*, **1996**, *147*, 117-146.  
DOI: 10.1016/0010-8545(95)01129-3
54. The first crystal structures of mixed chalcogen derivatives. R<sub>2</sub>Sn[(OPPh<sub>2</sub>)(SPPH<sub>2</sub>)<sub>2</sub>N]<sub>2</sub> (R = Me, Ph), R. Rösler, J. E. Drake, C. Silvestru, J. Yang and I. Haiduc, *J. Chem. Soc., Dalton Trans.*, **1996**, 391-399.  
DOI: 10.1039/DT9960000391
55. Genotoxicity of some metal-based antineoplastics, evaluated by SOS chromotest and cytogenetic analysis, C. Socaciu, I. Pasca, C. Silvestru and I. Haiduc, *Metal Based-Drugs*, **1996**, *3*, 91-99.  
DOI: 10.1155/MBD.1996.91

56. Dichlorodiphenylantimony(V) derivatives of oxo- and thioimidodiphosphinic acids, containing novel inorganic  $\text{SbO}_2\text{P}_2\text{N}$  and  $\text{SbOSP}_2\text{N}$  rings: crystal and molecular structures of  $\text{Ph}_2\text{SbCl}_2[(\text{OPPh}_2)(\text{XPPH}_2)\text{N}]$  ( $\text{X} = \text{O}, \text{S}$ ),  
C. Silvestru, R. Rösler, I. Haiduc, R. A. Toscano and D. B. Sowerby,  
*J. Organomet. Chem.*, **1996**, *515*, 131-138.  
DOI: 10.1016/0022-328X(95)06080-G
57. Studies on inorganic tin diphenyldithiophosphinates. Crystal and molecular structure of *cis*-dichlorobis(diphenyldithiophosphinato)tin(IV),  
R. Gavino-Ramirez, R. A. Toscano, C. Silvestru and I. Haiduc,  
*Polyhedron*, **1996**, *15*, 3857-3867.  
DOI: 10.1016/0277-5387(96)00100-3
58. Reduction of antimony(V) by dithiophosphinates and the crystal structure of dimeric diphenylantimony(III) dimethyldithiophosphinate,  
M. N. Gibbons, D. B. Sowerby, C. Silvestru and I. Haiduc,  
*Polyhedron*, **1996**, *15*, 4573-4578.  
DOI: 10.1016/0277-5387(96)00162-3

### 1997

59. Metal-oxygen vs. metal-sulfur bonding of the ambident monothio phosphinato ligand in some triphenylmetal(IV) derivatives,  $\text{Ph}_3\text{M}[\text{OSPR}_2]$  ( $\text{M} = \text{Ge}, \text{Sn}, \text{Pb}$ ). Crystal structures of  $\text{Ph}_3\text{Ge}[\text{O}(\text{S})\text{PPH}_2]$  and  $[\text{Ph}_2\text{Sn}\{\text{O}(\text{S})\text{PPH}_2\}(\mu\text{-OH})_2]$ ,  
A. Silvestru, C. Silvestru, I. Haiduc, J. E. Drake, J. Yang and F. Caruso,  
*Polyhedron*, **1997**, *16*, 949-961.  
DOI: 10.1016/S0277-5387(96)00354-3
60. Triorganoantimony(V) diorganophosphinates. Crystal and molecular structure of (diphenylphosphinato)(hydroxo)trimethylantimony(V), exhibiting a polymeric chain supramolecular self-assembly through hydrogen bonds,  
C. Silvestru, A. Silvestru, I. Haiduc, D. B. Sowerby, K. H. Ebert and H. J. Breunig,  
*Polyhedron*, **1997**, *16*, 2643-2649.  
DOI: 10.1016/S0277-5387(96)00602-X
61. Crystal and molecular structures of  $(\text{OPPh}_2)(\text{SPPH}_2)\text{NH}$  and its sodium salt  $[\text{Na}\{(\text{OPPh}_2)(\text{SPPH}_2)\text{N}\} \cdot 2\text{THF}]_2$ ,  
J. Yang, J. E. Drake, S. Hernandez-Ortega, R. Rösler and C. Silvestru,  
*Polyhedron*, **1997**, *16*, 4061-4071.  
DOI: 10.1016/S0277-5387(97)00175-7
62. Inorganic chelate (carbon-free) rings in monomeric and dimeric  $[\text{R}_x\text{M}\{(\text{XPR}'_2)(\text{YPR}''_2)\text{N}\}_y]_n$ ,  
C. Silvestru, J. E. Drake, R. Rösler, J. Yang, A. Silvestru and I. Haiduc,  
*Phosphorus, Sulfur & Silicon*, **1997**, *124/125*, 63-72.  
DOI: 10.1080/10426509708545611
63. Four- and six-membered inorganic rings in the "butterfly"-like  $[\text{Mn}\{(\text{OPPh}_2)_2\text{N}\}_2]_2$ ,  
I. Szekeley, J. E. Drake and C. Silvestru,  
*Phosphorus, Sulfur & Silicon*, **1997**, *124/125*, 557-560.  
DOI: 10.1080/10426509708545683
64. Coordination patterns of tetraorganodichalcogenoimidodiphosphinato ligands,  
C. Silvestru,  
in "The XXIII-a Meeting of Scientific Communications", Caciulata, October 1997,  
Vol. I, 372-376.

### 1998

65. Bis(thiophosphinoyl)amines and their neutral cobalt(II) complexes, containing stable tetrahedral  $\text{CoS}_4$  cores. Crystal structures of  $\text{NH}(\text{SPMe}_2)(\text{SPPH}_2)$  and  $[\text{Co}\{(\text{SPMe}_2)(\text{SPPH}_2)\text{N}\}_2]$ ,  
C. Silvestru, R. Rösler, J. E. Drake, J. Yang, G. Espinosa-Pérez and I. Haiduc,  
*J. Chem. Soc., Dalton Trans.*, **1998**, 73-78.  
DOI: 10.1039/a705086k

66. New versatile organophosphorus ligands. Crystal and molecular structures of isomeric P,P-dimethyl-P',P'-diphenyl-P-thioimidodiphosphinic and P,P-dimethyl-P',P'-diphenyl-P'-thioimidodiphosphinic acids,  
R. Rösler, M. Stanciu, J. Yang, J. E. Drake, C. Silvestru and I. Haiduc,  
*Phosphorus, Sulfur & Silicon*, **1998**, *132*, 231-250.  
DOI: 10.1080/10426509808036989
67. Supramolecular self-assembly in triphenyllead(IV) dimethylphosphinodithioate,  $[\text{Ph}_3\text{PbS}_2\text{PMe}_2]_n$ , a chain polymer built through intermolecular Pb-S secondary bonds,  
F. T. Edelmann, I. Haiduc, C. Silvestru, H.-G. Schmidt and M. Noltemeyer,  
*Polyhedron*, **1998**, *17*, 2043-2047.  
DOI: 10.1016/S0277-5387(97)00517-2
68. Crystal and molecular structure of  $\text{Mn}[(\text{OPPh}_2)_2\text{N}]_3 \cdot \text{CH}_2\text{Cl}_2$ , a new monomeric manganese(III) complex stabilized by oxygen chelating ligands,  
N. Zuniga-Villareal, M. Reyes Lezama, S. Hernandez-Ortega and C. Silvestru,  
*Polyhedron*, **1998**, *17*, 2679-2685.  
DOI: 10.1016/S0277-5387(98)00030-8
69.  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectroscopy as a suitable method for the characterization of phenylantimony chlorides,  
A. Silvestru and C. Silvestru,  
*Studia Univ. "Babes-Bolyai", Chemia*, **1998**, *43(1-2)*, 273-280.
70. Vibrational spectra of dimethyldithiophosphinate anion:  $(\text{CH}_3)_2\text{PS}_2^-$ ,  
C. A. Tellez, S. De La Riva, E. Hollauer, I. Haiduc and C. Silvestru,  
*Spectrosc. Lett.*, **1998**, *31*, 1469-1483.  
DOI: 10.1080/00387019808001653

### 1999

71. New versatile phosphorus-containing proligands - asymmetric  $(\text{XPR}'_2)(\text{YPR}'_2)\text{NH}$  (X = O, S; R, R' = Ph, OEt) and their potassium salts: the crystal and molecular structures of  $(\text{SPPH}_2)[\text{OP}(\text{OEt})_2]\text{NH}$ ,  $\text{K}[(\text{SPPH}_2)\{\text{OP}(\text{OEt})_2\}\text{N}]\cdot\text{H}_2\text{O}$  and  $(\text{OPPH}_2)[\text{OP}(\text{OEt})_2]\text{NH} \cdot 1/2\text{HCl} \cdot 1/4\text{H}_2\text{O}$ ,  
G. Balazs, J. E. Drake, C. Silvestru and I. Haiduc,  
*Inorg. Chim. Acta*, **1999**, *287*, 61-71.  
DOI: 10.1016/S0020-1693(98)00408-3
72. Structural chemistry of bismuth compounds. I. Organobismuth derivatives,  
C. Silvestru, H. J. Breunig and H. Althaus,  
*Chem. Rev.*, **1999**, *99*, 3277-3328.  
DOI: 10.1021/cr980083q

### 2000

73. Preparation and single-crystal characterization of manganese(II) complexes of dichalcogenoimido-diphosphinato ligands. Monomeric vs. dimeric  $\text{Mn}[(\text{OPPh}_2)(\text{XPPH}_2)\text{N}]_2$  (X = S, O),  
I. Szekeley, C. Silvestru, J. E. Drake, G. Balazs, S. I. Farcas and I. Haiduc,  
*Inorg. Chim. Acta*, **2000**, *299*, 247-252.  
DOI: 10.1016/S0020-1693(99)00507-1
74. Synthesis and spectroscopic characterization of new organolead(IV) complexes containing organophosphorus ligands,  
R. A. Varga, C. Silvestru and I. Haiduc,  
*Synth. React. Inorg. Met.-Org. Chem.*, **2000**, *30*, 485-498.
75. Rupture of a P=S bond in a disulfurimidodiphosphinate ligand. The X-ray crystal structures of  $[(\mu_2\text{-H})\text{Ru}-3(\mu_3\text{-S})\{\mu_2\text{-S,S,P}'-(\text{SPPH}_2)(\text{PPh}_2)\text{N}\}(\text{CO})_8]$  and  $[(\mu_2\text{-H})\text{Ru}-3\{\mu_2\text{-S,S,P}'-(\text{SPPH}_2)(\text{PPh}_2)\text{N}\}(\text{CO})_9]$ ,  
E. Garcia-Baez, M. J. Rosales-Hoz, H. Noth, I. Haiduc and C. Silvestru,  
*Inorg. Chem. Commun.*, **2000**, *3*, 173-177.  
DOI: 10.1016/S1387-7003(00)00038-1
76. New palladium(II) tetraorganodichalcogenoimidodiphosphinates. Crystal and molecular structure of  $\text{Pd}[(\text{SPMe}_2)_2\text{N}]_2$  and *cis*- $\text{Pd}[(\text{OPPh}_2)(\text{SPMe}_2)\text{N}]_2$ ,  
D. Bilc, A. Silvestru, C. Silvestru, I. Haiduc and J. E. Drake,  
*Rev. Soc. Quim. Mexico*, **2000**, *44*, 116-121.

**2001**

77. Inorganic chelate rings in organolead(IV) derivatives of organophosphorus ligands. From 6-membered to 16-membered rings, R. Varga, J. E. Drake and C. Silvestru, *Phosphorus, Sulfur & Silicon*, **2001**, 169, 47-50.
78. Hypervalent organotin(IV) derivatives containing [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]<sub>2</sub>Sn moieties. Competition between nitrogen and chalcogen atoms for coordination to the metal center, R. Varga, M. Schuermann and C. Silvestru, *J. Organomet. Chem.*, **2001**, 623, 161-167.  
DOI: 10.1016/S0022-328X(00)00871-8
79. Synthesis, spectroscopic characterization, and structural studies of new Cu(I) and Cu(II) complexes containing organophosphorus ligands, and crystal structures of (Ph<sub>3</sub>P)<sub>2</sub>Cu[S<sub>2</sub>PMe<sub>2</sub>], (Ph<sub>3</sub>P)<sub>2</sub>Cu[(OPPh<sub>2</sub>)<sub>2</sub>N], Cu[(OPPh<sub>2</sub>)<sub>2</sub>N]<sub>2</sub>, and Cu[(OPPh<sub>2</sub>)(SPPH<sub>2</sub>)N]<sub>2</sub>, A. Silvestru, A. Rotar, J. E. Drake, M. B. Hursthouse, M. E. Light, S. I. Farcas, R. Rösler and C. Silvestru, *Can. J. Chem.*, **2001**, 79, 983-991.  
DOI: 10.1139/cjc-79-5-6-983
80. Lithium tetraorganodichalcogenoimidodiphosphinates. Crystal structure of [Li{(OPPh<sub>2</sub>)(SPMe<sub>2</sub>)N}.2H<sub>2</sub>O]<sub>2</sub>, a dimer formed through oxygen-bridging phosphorus ligands, I. Ghesner, C. Palotas, A. Silvestru, C. Silvestru and J. E. Drake, *Polyhedron*, **2001**, 20, 1101-1105.  
DOI: 10.1016/S0277-5387(01)00767-7
81. Tetraorganodichalcogenoimidodiphosphorus acids and their Main Group metal derivatives, C. Silvestru and J. E. Drake, *Coord. Chem. Rev.*, **2001**, 223 (1), 117-216.  
DOI: 10.1016/S0010-8545(01)00387-3

**2002**

82. Solution and solid state structural investigations of organotin(IV) compounds containing asymmetric imidodiphosphinato ligands. X-ray structure of R''<sub>2</sub>Sn[(OPMe<sub>2</sub>)(OPPh<sub>2</sub>)N]<sub>2</sub> (R = Me, Bu<sup>n</sup>, Ph), C. Silvestru, R. Rösler, A. Silvestru and J. E. Drake, *J. Organomet. Chem.*, **2002**, 642, 71-79.  
DOI: 10.1016/S0022-328X(01)01200-1
83. Phenylantimony(III) derivatives of tetraphenyldichalcogenoimidodiphosphinic acids. Crystal and molecular structure of PhSb[(XPPH<sub>2</sub>)(SPPH<sub>2</sub>)N]<sub>2</sub> (X = O, S), I. Ghesner, L. Opris, G. Balazs, H. J. Breunig, J. E. Drake, A. Silvestru and C. Silvestru, *J. Organomet. Chem.*, **2002**, 642, 113-119.  
DOI: 10.1016/S0022-328X(01)01198-6
84. Dibenzyltin(IV) derivatives of tetraphenyldichalcogenoimidodiphosphinato ligands. X-Ray molecular structures of (C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>)<sub>2</sub>Sn[(OPPh<sub>2</sub>)<sub>2</sub>N]<sub>2</sub> and (C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>)<sub>2</sub>Sn[(OPPh<sub>2</sub>)(SPPH<sub>2</sub>)N]<sub>2</sub>.C<sub>6</sub>H<sub>6</sub>, A. R. Varga, J. E. Drake, M. Venter, K. C. Molloy and C. Silvestru, *Rev. Roum. Chim.*, **2002**, 47, 1069-1075.

**2003**

85. Low-valent organobismuth compounds with intramolecular coordination: *cyclo*-R<sub>3</sub>Bi<sub>3</sub>, *cyclo*-R<sub>4</sub>Bi<sub>4</sub>, RBi[W(CO)<sub>5</sub>]<sub>2</sub>, and R<sub>4</sub>Bi<sub>2</sub> [R = 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>], L. Balazs, H. J. Breunig, E. Lork and C. Silvestru, *Eur. J. Inorg. Chem.*, **2003**, 1361-1365.  
DOI: 10.1002/ejic.200390176
86. Gold and silver complexes with the diselenium ligand [Ph<sub>2</sub>P(Se)NP(Se)Ph<sub>2</sub>], S. Canales, O. Crespo, M. C. Gimeno, P. G. Jones, A. Laguna, A. Silvestru and C. Silvestru, *Inorg. Chim. Acta*, **2003**, 347, 16-22.  
DOI: 10.1016/S0020-1693(02)01440-8

87. Organolead(IV) derivatives of oxophosphorus ligands. X-Ray structures of monomeric  $R_2Pb[(OPPh_2)_2N]_2$  ( $R = Me, Ph$ ) and tetrameric  $[Me_3Pb(O_2PPh_2)]_4$ ,  
R. A. Varga, J. E. Drake and C. Silvestru,  
*J. Organomet. Chem.*, **2003**, 675, 48-56.  
DOI: 10.1016/S0022-328X(03)00229-8
88. Hypervalent 5-*Bi*-12 derivatives containing dichalcogenoimidodiphosphinato ligands. Crystal structure and solution behaviour of  $[2-(Me_2NCH_2)C_6H_4]BiCl[(XPR_2)(YPR'_2)N]$  ( $X, Y = O, S, Se; R, R' = Me, Ph$ ),  
L. Balazs, O. Stanga, H. J. Breunig and C. Silvestru,  
*Dalton Trans.*, **2003**, 2237-2242.  
DOI: 10.1039/b3012903
89. Phenylmercury(II) derivatives of tetraorganodichalcogenoimidodiphosphorus acids. Crystal and molecular structure of  $[PhHg\{(OPR_2)(SPPH_2)N\}]_2$  ( $R = Me, Ph$ ),  
O. Bumbu, A. Silvestru, C. Silvestru, J. E. Drake, M. B. Hursthouse and M. E. Light,  
*J. Organomet. Chem.*, **2003**, 687, 118-124.  
DOI: 10.1016/j.jorganchem.2003.07.016
90. Trimethylantimony(V) tetraphenyldichalcogenoimidodiphosphinates. Crystal structure of  $Me_3Sb[O-PPh_2=N-PPh_2=S]_2$ , a compound containing true *O*-monometallic monoconnectivephosphorus ligands with XPNPY skeleton,  
I. Ghesner, A. Soran, C. Silvestru and J. E. Drake,  
*Polyhedron*, **2003**, 22, 3395-3401.  
DOI: 10.1016/j.poly.2003.08.013
91. Solid state structure and solution behaviour of hypervalent organoantimony halides containing 2-( $Me_2NCH_2$ ) $C_6H_4$ - moieties,  
L. M. Opris, A. Silvestru, C. Silvestru, H. J. Breunig and E. Lork,  
*Dalton Trans.*, **2003**, 4367-4374.  
DOI: 10.1039/b306299f

## **2004**

92. New organomercury(II) compounds containing intramolecular  $N \rightarrow Hg$  interactions. Crystal and molecular structure of  $[2-(Me_2NCH_2)C_6H_4]HgCl$  and  $[2-(Me_2NCH_2)C_6H_4]HgS(S)PPh_2$ ,  
O. Bumbu, C. Silvestru, M. C. Gimeno and A. Laguna,  
*J. Organomet. Chem.*, **2004**, 689, 1172-1179.  
DOI: 10.1016/j.jorganchem.2003.10.044
93. Organobismuth homocycles  $(RBi)_n$  and heterocycles  $(RBiS)_2$ ,  
H. J. Breunig, L. Balázs, N. Philipp, A. Soran and C. Silvestru,  
*Phosphorus, Sulfur & Silicon*, **2004**, 179, 853-857.  
DOI: 10.1080/10426500490427349
94. Inorganic rings with gallium organyls and iminodiphosphinechalcogenides,  
S. Cortes-Llamas, C. Silvestru and M.-Á. Munoz-Hernandez,  
*Phosphorus, Sulfur & Silicon*, **2004**, 179, 941-945.  
DOI: 10.1080/10426500490428960
95. HPLC monitored synthesis of  $R_2NCH_2$  substituted benzene derivatives used as (*C, N*)-ligands for organometallic compounds,  
L. Soran, V. Coman, A. Soran and C. Silvestru,  
*Cent. Eur. J. Chem.*, **2004**, 2, 563-572.  
DOI: 10.2478/BF02482721
96. Crystal and molecular structure of bis(tetraphenylmonothioimidodiphosphinato)dibutyltin(IV),  $Bu_2Sn[(OPPh_2)(SPPH_2)N]_2$  - *trans* versus *cis*- $C_2SnO_2S_2$  octahedral cores,  
A. R. Varga and C. Silvestru,  
*Rev. Roum. Chim.*, **2004**, 49, 247-255.

97. Towards cationic gallium derivatives: metallacycles from the reactions of organogallium compounds with tetraorganodichalcogenoimidodiphosphinates and a new *N*-(diphenylthiophosphinyl)thioureato ligand,  
V. Montiel-Palma, E. Huitrón-Rattinger, S. Cortés-Llamas, M.-A. Muñoz-Hernández, V. García-Montalvo, E. López-Honorato and C. Silvestru,  
*Eur. J. Inorg. Chem.*, **2004**, 3743-3750.  
DOI: 10.1002/ejic.200400087
98. Syntheses and chemistry of hypervalent *cyclo*-R<sub>4</sub>Sb<sub>4</sub>, *cyclo*-(RSbE)<sub>n</sub> [R = 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>, E = O, S] and precursors,  
L. M. Opris, A. Silvestru, C. Silvestru, H. J. Breunig and E. Lork,  
*Dalton Trans.*, **2004**, 3575 - 3585.  
DOI: 10.1039/b409866h

### 2005

99. Dichloro and alkylchloro gallium derivatives of dichalcogenoimidodiphosphinate ligands: isolation of a spirogallium cation,  
E. Huitrón-Rattinger, N. Tiempos-Flores, S. A. Cortés-Llamas, V. Montiel-Palma, J.-M. Grevy, M.-Á. Muñoz-Hernández, C. Silvestru and P. P. Power,  
*Dalton Trans.*, **2005**, 193-199.  
DOI: 10.1039/b412874e
100. Synthesis, solution behaviour and X-ray structures of [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]SnCl<sub>3</sub> and [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]SnCl<sub>3</sub>·DMSO,  
R. A. Varga, C. Silvestru and C. Deleanu,  
*Appl. Organomet. Chem.*, **2005**, 19, 153-160.  
DOI: 10.1002/aoc.817
101. Structure and *in vitro* antibacterial activity of BuSnCl<sub>3-n</sub>[(OPPh<sub>2</sub>)(SPPPh<sub>2</sub>)N]<sub>n</sub> (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.  
DOI: 10.1002/aoc.818
102. Gold(0) and gold(I), and gold(III) reactivity towards the tetraphenyldithioimidodiphosphinic acid, [Ph<sub>2</sub>P(S)NHP(S)Ph<sub>2</sub>],  
G. L. Abbati, M. C. Aragoni, M. Arca, M. B. Carrea, F. A. Devillanova, A. Garau, F. Isaia, V. Lippolis, M. Marcelli, C. Silvestru and G. Verani,  
*Eur. J. Inorg. Chem.*, **2005**, 589-596.  
DOI: 10.1002/ejic.200400651
103. Organoselenium(II) and -selenium(IV) compounds containing 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> 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.  
DOI: 10.1016/j.jorganchem.2005.02.052
104. Structural diversity of cadmium(II) complexes of tetraorganodichalcogenoimidodiphosphinato ligands: monomeric Cd[(SPMe<sub>2</sub>)<sub>2</sub>N]<sub>2</sub>, dinuclear [Cd{(OPMe<sub>2</sub>)(SPPPh<sub>2</sub>)N}<sub>2</sub>]<sub>2</sub> and [Cd<sub>2</sub>{(OPPh<sub>2</sub>)<sub>2</sub>N}<sub>4</sub>(H<sub>2</sub>O)], and trinuclear K[Cd<sub>2</sub>{(OPPh<sub>2</sub>)<sub>2</sub>N}<sub>5</sub>],  
M. Ghesner, A. Silvestru, C. Silvestru, J. E. Drake, M. B. Hursthouse and M. E. Light,  
*Inorg. Chim. Acta*, **2005**, 358, 3724-3734.  
DOI: 10.1016/j.ica.2005.04.046
105. Phosphorescent excited state of [Au<sub>2</sub>{(Ph<sub>2</sub>Sb)<sub>2</sub>O}<sub>3</sub>]<sup>2+</sup>: 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.  
DOI: 10.1021/ja053237+



106. Synthese und Kristallstruktur von *meso*-R(Ph)Sb-Sb(Ph)R [R = (Me<sub>3</sub>Si)<sub>2</sub>CH],  
(Synthesis and crystal structure of *meso*-R(Ph)Sb-Sb(Ph)R [R = (Me<sub>3</sub>Si)<sub>2</sub>CH]),  
L. Balázs, H. J. Breunig, C. Silvestru and R. Varga,  
*Z. Naturforsch.*, **2005**, *60b*, 1321-1323.

### 2006

107. Hypercoordinated organotin(IV) halides containing 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> groups: [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]<sub>2</sub>SnX<sub>2</sub>  
(X = F, Cl, Br, I) and [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]<sub>2</sub>R<sub>2</sub>SnX (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.  
DOI: 10.1002/ejic.200501018
108. Isomers of a dibismuthane, R<sub>2</sub>Bi-BiR<sub>2</sub> [R = 2,6-(Me<sub>2</sub>NCH<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub>], and unusual reactions with oxygen:  
formation of [R<sub>2</sub>Bi]<sub>2</sub>(O<sub>2</sub>) and R'R''Bi [R' = 2-(Me<sub>2</sub>NCH<sub>2</sub>)-6-(Me<sub>2</sub>N(O)CH<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>; R'' = 2-(Me<sub>2</sub>NCH<sub>2</sub>)-6-  
{O(O)C}C<sub>6</sub>H<sub>3</sub>],  
L. Balazs, H. J. Breunig, E Lork, A. Soran and C. Silvestru,  
*Inorg. Chem.*, **2006**, *45*, 2341-2346.  
DOI: 10.1021/ic052160n
109.  $\mu$ -Hydroxy-bis{[2-(dimethylaminomethyl)phenyl]dimethyltin(IV)}iodide,  
R. A. Varga and C. Silvestru,  
*Acta Cryst.*, **2006**, *E62*, m1964-m1965.  
DOI: 10.1107/S1600536806028418
110. Bismuth(III) complexes with diorganodichalcogenophosphinato ligands. Synthesis and spectroscopic  
characterization,  
M. Joensson, A. Silvestru and C. Silvestru,  
*Studia Univ. "Babes-Bolyai", Chemia*, **2006**, *51(1)*, 83-90.
111. New organotin(IV) and -lead(IV) *N,N*-dimethyldithiocarbamates: synthesis, solution NMR characterization  
and single-crystal X-ray structure of Ph<sub>2</sub>MCl(S<sub>2</sub>CNMe<sub>2</sub>) (M = Sn, Pb) and Ph<sub>2</sub>Sn(S<sub>2</sub>CNMe<sub>2</sub>)<sub>2</sub>,  
C. Comsa, A. Cristea, A. Silvestru and C. Silvestru,  
*Studia Univ. "Babes-Bolyai", Chemia*, **2006**, *51(2)*, 41-50.
112. Crystal structure of diphenyltin(IV) bis(tetraphenylimidodiphosphinate),  
R. A. Varga and C. Silvestru,  
*Main Group Metal Chem.*, **2006**, *29*, 285-286.

### 2007

113. 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.  
DOI: 10.1039/b613365g
114. Hydrogen bonding in dibromo[2-(dimethylaminomethyl)phenyl][2-(dimethylammoniomethyl)phenyl]tin(IV)  
tetrabromo[2-(dimethylaminomethyl)phenyl]tin(IV),  
R. A. Varga and C. Silvestru,  
*Acta Cryst.*, **2007**, *C63*, m48-m50.  
DOI: 10.1107/S010827010605150X
115. 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.  
DOI: 10.1021/om0611608
116. Solid state structure and solution behaviour of organoselenium(II) compounds containing  
2-{X(CH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NCH<sub>2</sub>}C<sub>6</sub>H<sub>4</sub> groups (X = O, NMe),  
M. Kulcsar, A. Beleaga, C. Silvestru, A. Nicolescu, C. Deleanu, C. Todasca and A. Silvestru,  
*Dalton Trans.*, **2007**, 2187-2196.  
DOI: 10.1039/b702629c

117. 4-Benzylmorpholin-4-ium chloride,  
D. Copolovici, C. Silvestru and R. A. Varga,  
*Acta Cryst.*, **2007**, *E63*, o2465.  
DOI: 10.1107/S1600536807017060
118. Bismuth(III) complexes of tetraorganodichalcogenoimidodiphosphinic acids. Crystal and molecular structure of Bi[(SPMe<sub>2</sub>)(SPPH<sub>2</sub>)N]<sub>3</sub> and Bi[(OPPh<sub>2</sub>)<sub>2</sub>N]<sub>2</sub>[(OPPh<sub>2</sub>)(SPPH<sub>2</sub>)N],  
M. Nema, M. Jönsson, R. A. Varga, A. Silvestru and C. Silvestru,  
*Rev. Roum. Chim.*, **2007**, *52*, 51-58.
119. New copper(I) and copper(II) tetraorganodichalcogenoimidodiphosphinates. Crystal and molecular structure of the first monothioimidodiphosphinato copper(I) complex, Cu<sub>4</sub>[(OPMe<sub>2</sub>)(SPPH<sub>2</sub>)N]<sub>4</sub>·6CH<sub>2</sub>Cl<sub>2</sub>,  
A. Rotar, O. Moldovan, S. I. Farcas, R. A. Varga, C. Silvestru and A. Silvestru,  
*Studia Univ. "Babes-Bolyai", Chemia*, **2007**, *52(1)*, 81-90.
120. Intramolecular interactions in  $\mu$ -oxido-bis{bis[2-(dimethylaminomethyl)phenyl]stannol},  
A. Rotar, R. A. Varga and C. Silvestru,  
*Acta Cryst.*, **2007**, *C63*, m355-m356.  
DOI: 10.1107/S0108270107030156
121. Hydrogen bonding in (2-bromobenzyl)dimethylammonium bromide,  
R. A. Varga and C. Silvestru,  
*Acta Cryst.*, **2007**, *E63*, o3381.  
DOI: 10.1107/S1600536807031947
122. Tetrahedral Co(II) complexes with CoI<sub>2</sub>O<sub>2</sub> and CoO<sub>2</sub>S<sub>2</sub> cores. Crystal structures of [Co{HN(OPPh<sub>2</sub>)(SPPH<sub>2</sub>-O)<sub>2</sub>I<sub>2</sub>}] and [Co{N(OPPh<sub>2</sub>)(SPPH<sub>2</sub>-O,S)<sub>2</sub>}],  
M. C. Aragoni, M. Arca, M. B. Carrea, A. Garau, F. A. Devillanova, F. Isaia, V. Lippolis, G. L. Abbati, F. Demartin, C. Silvestru, S. Demeshko and F. Mayer,  
*Eur. J. Inorg. Chem.*, **2007**, 4607-4614.  
DOI: 10.1002/ejic.200700441
123. Iodidomesityltellurium(II) iodidotrimesitylditellurium(II) (*Te-Te*),  
L. Copolovici, C. Silvestru, V. Lippolis and R. A. Varga,  
*Acta Cryst.*, **2007**, *C63*, o528-o529.  
DOI: 10.1107/S0108270107035123
124. Hydrogen bis(tetraphenylimidodiphosphinic acid) triiodide,  
L. Copolovici, R. A. Varga, V. Lippolis and C. Silvestru,  
*Acta Cryst.*, **2007**, *E63*, o4206-o4207.  
DOI: 10.1107/S1600536807047198
125. 1-Bromo-2,6-bis(4-methylpiperazin-1-ylmethyl)benzene,  
L. Copolovici, V. Bojan, C. Silvestru and R. A. Varga,  
*Acta Cryst.*, **2007**, *E63*, o4323.  
DOI: 10.1107/S1600536807049781
126. Tetrakis[2-(dimethylaminomethyl)phenyl]-1*k*C,2*k*C,3*k*C,4*k*C -hexa- $\mu$ -sulfido-1:2*k*<sup>4</sup>S:S;1,4*k*<sup>2</sup>S:S;2:3*k*<sup>2</sup>S:S;-3:4*k*<sup>4</sup>S:S-tetratin(IV) chloroform solvate,  
R. A. Varga and C. Silvestru,  
*Acta Cryst.*, **2007**, *E63*, m2789.  
DOI: 10.1107/S1600536807051501
127. *N*-(2-bromobenzyl)-2,6-diisopropylaniline,  
A. Cristea, R. A. Varga and C. Silvestru,  
*Acta Cryst.*, **2007**, *E63*, o4528-o4529.  
DOI: 10.1107/S1600536807052907
128. 1-Bromo-2,6-bis(*N*-morpholinylmethyl)benzene,  
L. Copolovici, V. Bojan, C. Silvestru and R. A. Varga,  
*Acta Cryst.*, **2007**, *E63*, o4570.  
DOI: 10.1107/S1600536807051574

129. *N,N*-bis(2-bromobenzyl)-2,6-diisopropylaniline,  
C. Comsa, C. Silvestru and R. A. Varga,  
*Acta Cryst.*, **2007**, *E63*, o4714.  
DOI: 10.1107/S160053680705670X
130. Unprecedented gold-telluroate clusters  $[\text{Au}_8(\mu\text{-TeR})_8(\text{PR}'_3)_4]$ ,  
O. Bumbu, C. Ceamanos, O. Crespo, M. C. Gimeno, A. Laguna, C. Silvestru and M. D. Villacampa,  
*Inorg. Chem.*, **2007**, *46*, 11457-11460.  
DOI: 10.1021/ic7013545
131. Crystal structure of triphenyltin(IV) diphenyldithiophosphate,  
R. A. Varga and C. Silvestru,  
*Main Group Metal Chem.*, **2007**, *30*, 199-201.

### 2008

132. Substitutional disorder in a hypervalent diorganotin(IV) dihalide,  
A. Rotar, R. A. Varga and C. Silvestru,  
*Acta Cryst.*, **2008**, *E64*, m45.  
DOI: 10.1107/S1600536807063386
133. *N,N*-bis(2-bromoethyl)aniline,  
R. V. Bojan, R. A. Varga and C. Silvestru,  
*Acta Cryst.*, **2008**, *E64*, o86.  
DOI: 10.1107/S1600536807056279
134. Tris[2-(morpholin-4-ylmethyl)phenyl- $\kappa^2 C^1, N$ ]antimony(III),  
D. Copolovici, C. Silvestru and R. A. Varga,  
*Acta Cryst.*, **2008**, *C64*, m37-m39.  
DOI: 10.1107/S0108270107061896
135. Solid-state structure and solution behaviour of hypervalent organotin(IV) derivatives containing  
2-( $\text{Me}_2\text{NCH}_2$ ) $\text{C}_6\text{H}_4$  moieties,  
R. A. Varga, K. Jurkschat and C. Silvestru,  
*Eur. J. Inorg. Chem.*, **2008**, 708-716.  
DOI: 10.1002/ejic.200701044
136. Hypervalent organobismuth(III) carbonate, chalcogenides and halides with the pendant arm ligands  
2-( $\text{Me}_2\text{NCH}_2$ ) $\text{C}_6\text{H}_4$  and 2,6-( $\text{Me}_2\text{NCH}_2$ ) $_2\text{C}_6\text{H}_3$ ,  
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.  
DOI: 10.1039/b717127g
137. Crystal and molecular structure of  $[\text{2,6-(CH}_2\text{NMe}_2)_2\text{C}_6\text{H}_3]_2\text{SnF}_2$ , 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.  
DOI: 10.1002/zaac.200800002
138. Di- $\mu$ -chlorido-bis{[2-(morpholinomethyl)phenyl- $\kappa^2 C^1, N$ ]palladium(II)},  
D. Copolovici, C. Silvestru, F. Isaia and R. A. Varga,  
*Acta Cryst.*, **2008**, *E64*, m1057-m1058.  
DOI: 10.1107/S1600536808022575
139. 4-Benzylpiperazin-1-ium chloride chloroform solvate,  
M. G. Nema, R. A. Varga, C. Silvestru and H. J. Breunig,  
*Acta Cryst.*, **2008**, *E64*, o1585.  
DOI: 10.1107/S1600536808022587
140. Heterocycles 21. Reaction of 2-phenyl-thiazol-4-carbaldehyde with 2-bromoacetophenone,  
V. Zaharia, A. Silvestru, P. Verite, M. Vlassa, S. Imre and C. Silvestru,  
*Rev. Chim. (Bucuresti)*, **2008**, *59*, 1249-1254.

## 2009

141. Monoorganobismuth(III) dihalides containing the new pincer 2,6-{MeN(CH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NCH<sub>2</sub>}<sub>2</sub>C<sub>6</sub>H<sub>3</sub> 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.  
DOI: 10.1039/b811713f
142. Hydrogen bonding in a substitutionally disordered di- $\mu$ -hydroxido-bis{aquatri[bromido/chlorido(1/2)]tin(IV)} acetone disolvate, I. Barbul, R. A. Varga and C. Silvestru, *Acta Cryst.*, **2009**, E65, m39.  
DOI: 10.1107/S1600536808040543
143. Syntheses and characterization of hypervalent organoantimony(III) compounds containing the [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]<sub>2</sub>Sb fragment, L. M. Opris, A. M. Preda, R. A. Varga, H. J. Breunig and C. Silvestru, *Eur. J. Inorg. Chem.*, **2009**, 1187-1193.  
DOI: 10.1002/ejic.200801129
144. Organoselenium(II) complexes containing organophosphorus ligands. Crystal and molecular structure of PhSeSP(S)Ph<sub>2</sub>, [2-{MeN(CH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NCH<sub>2</sub>}C<sub>6</sub>H<sub>4</sub>]SeSP(S)R'<sub>2</sub> (R' = Ph, OPr<sup>i</sup>) and [2-{O(CH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NCH<sub>2</sub>}C<sub>6</sub>H<sub>4</sub>]SeSP(S)(OPr<sup>i</sup>)<sub>2</sub>, A. Belega, M. Kulcsar, C. Deleanu, A. Nicolescu, C. Silvestru and A. Silvestru, *J. Organomet. Chem.*, **2009**, 694, 1308-1316.  
DOI: 10.1016/j.jorganchem.2008.12.011
145. Diorganotin(IV) compounds containing 2-(Et<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> 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.  
DOI: 10.1016/j.jorganchem.2008.12.023
146. Gold complexes with the selenolate ligand [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]Se<sup>-</sup>, O. Crespo, M. C. Gimeno, A. Laguna, M. Kulcsar and C. Silvestru, *Inorg. Chem.*, **2009**, 48, 4134-4142.  
DOI: 10.1021/ic802396g
147. Polynuclear titanocene complexes with antimony ligands: [(Cp<sub>2</sub>Ti)<sub>2</sub>(SbR<sub>2</sub>)<sub>2</sub>] (R = Et), [(Cp<sub>2</sub>Ti)<sub>3</sub>(SbR)<sub>3</sub>Sb] [R = 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>] and [(Cp<sub>2</sub>Ti)<sub>3</sub>(SbR)<sub>2</sub>Sb<sub>7</sub>] (R = Me<sub>3</sub>SiCH<sub>2</sub>), H. J. Breunig, E. Lork, O. Moldovan, C. I. Raț, U. Rosenthal and C. Silvestru, *Dalton Trans.*, **2009**, 5065-5067.  
DOI: 10.1039/b904846d
148. Chloridobis{2-[(dimethylamino)methyl]phenyl}antimony(III), M. Olaru, S. Roșca, C. I. Raț and C. Silvestru, *Acta Cryst.*, **2009**, E65, m1383-m1384.  
DOI: 10.1107/S1600536809041890
149. Reactivity of [Ru<sub>3</sub>(CO)<sub>12</sub>] towards (EPR<sub>2</sub>)(E'PR'<sub>2</sub>)NH (R = Ph, Me; R' = Ph; E, E' = O, S, Se): <sup>31</sup>P and <sup>77</sup>Se NMR spectroscopic characterization and structural analysis of the complexes formed, E. V. García-Báez, M. G. Ballinas-López, M. J. Rosales-Hoz, M. A. Leyva, I. Haiduc and C. Silvestru, *Polyhedron*, **2009**, 28, 3747-3754.  
DOI: 10.1016/j.poly.2009.08.026
150. Bis[2-(morpholinomethyl)phenyl]phenylphosphane, A. Covaci, R. A. Varga and C. Silvestru, *Acta Cryst.*, **2009**, E65, o3158-o3159.  
DOI: 10.1107/S1600536809048946
151. [2-(4-Methylpiperazin-1-ylmethyl)phenyl]diphenylphosphane, A. Covaci, C. I. Raț and C. Silvestru, *Acta Cryst.*, **2009**, E65, o3193.  
DOI: 10.1107/S1600536809049526

152. Study of the chromatographic retention of some new organoselenium and organotellurium compounds containing intramolecular interactions by HPTLC,  
S. L. Dunca, M. Kulcsar, A. Silvestru, C. Silvestru and C. Sârbu,  
*Studia Univ. "Babes-Bolyai", Chemia*, **2009**, *54*(3), 71-80.
153. Organotin meclofenamic complexes: Synthesis, crystal structures and antiproliferative activity of the first complexes of meclofenamic acid – Novel anti-tuberculosis agents,  
D. Kovala-Demertzi, V. Dokorou, A. Primikiri, R. Varga, C. Silvestru, U Russo and M. A. Demertzis,  
*J. Inorg. Biochem.*, **2009**, *103*, 738-744.  
DOI: 10.1016/j.jinorgbio.2009.01.014
154. Hypervalent tetra- and triorganolead(IV) compounds containing 2-(R<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> groups (R = Me, Et),  
A. Cristea, A. Silvestru and C. Silvestru,  
*Studia Univ. "Babes-Bolyai", Chemia*, **2009**, *54*(4/2), 223-235.
- 2010**
155. Dichlorido[(Z)-4-(2,6-diisopropylanilino)pent-3-en-2-one]dimethyltin(IV).  
C. I. Raț, C. Comsa and C. Silvestru,  
*Acta Cryst.*, **2010**, *E66*, m130.  
DOI: 10.1107/S1600536809055810
156. Syntheses, solid-state structures, solution behaviour of hypervalent organobismuth(III) compounds [2-(Et<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]<sub>n</sub>BiX<sub>3-n</sub> and DFT characterization of [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]<sub>n</sub>BiX<sub>3-n</sub> [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.  
DOI: 10.1016/j.jorganchem.2010.01.004
157. New organophosphorus proligands and amide precursors. Crystal and molecular structures of Ph<sub>2</sub>P(E)NH(C<sub>6</sub>H<sub>3</sub>Pr<sub>2</sub>-2,6) (E = O, S) and (OPPh<sub>2</sub>)(O<sub>2</sub>SMe)N(C<sub>6</sub>H<sub>3</sub>Pr<sub>2</sub>-2,6),  
A. Pöllnitz, S. Irisli, C. Silvestru and A. Silvestru,  
*Phosphorus, Sulfur & Silicon*, **2010**, *185*, 910-919.  
DOI: 10.1080/10426500903029464
158. Syntheses, structures and intermolecular interactions of tetraorganoammonium, -phosphonium and -stibonium dimethyl- and diphenyltetrahaloantimonates,  
H. J. Breunig, T. Koehne, O. Moldovan, A. M. Preda, A. Silvestru, C. Silvestru, R. A. Varga, L. F. Piedra-Garza and U. Kortz,  
*J. Organomet. Chem.*, **2010**, *695*, 1307-1313.  
DOI: 10.1016/j.jorganchem.2010.0.016
159. Methyltin(IV) trichloride complexes of β-ketimines, MeSnCl<sub>3</sub>[OC(Me)CHC(Me)NH(C<sub>6</sub>H<sub>3</sub><sup>i</sup>Pr<sub>2</sub>-2',6')-4]. Solution behavior and solid state structure,  
C. Comșa, R. A. Varga and C. Silvestru,  
*Studia Univ. "Babes-Bolyai", Chemia*, **2010**, *55*(2/2), 207-216.
160. 3,5-Dibromo-2',3',4',5',6'-pentamethyl-1,1'-biphenyl,  
M. Olaru, S. Roșca, C. I. Raț and C. Silvestru,  
*Acta Cryst.*, **2010**, *E66*, o1248.  
DOI: 10.1107/S1600536810015308
161. Study of the coordination abilities of stibine ligands to gold(I).  
V. R. Bojan, E. J. Fernández, A. Laguna, J. M. López-de-Luzuriaga, M. Monge, M. E. Olmos, R. C. Puelles and C. Silvestru,  
*Inorg. Chem.*, **2010**, *49*, 5530-5541.  
DOI: 10.1021/ic1003484
162. New chiral organoantimony(III) compounds containing intramolecular N→Sb interactions – solution behaviour and solid state structures,  
D. Copolovici, V. R. Bojan, C. I. Raț, A. Silvestru, H. J. Breunig and C. Silvestru,  
*Dalton Trans.*, **2010**, *39*, 6410-6418.  
DOI: 10.1039/c003318a

163. The reaction of  $[\text{Os}_6(\text{CO})_{18}]$  with  $[(\text{SPPH}_2)_2\text{NH}]$ : Facile rearrangement of the metal framework, K. Dominguez-Guzman, A. L. Carrasco, M. A. Leyva, M. J. Rosales-Hoz, I. Haiduc and C. Silvestru, *Inorg. Chim. Acta*, **2010**, *363*, 2661-2663.  
DOI: 10.1016/j.ica.2010.03.055
164. Group 12 metal aryl selenolates. Crystal and molecular structure of  $[2-(\text{Et}_2\text{NCH}_2)\text{C}_6\text{H}_4]_2\text{Se}_2$  and  $[2-(\text{Me}_2\text{NCH}_2)\text{C}_6\text{H}_4\text{Se}]_2\text{M}$  (M = Zn, Cd), A. Pölnitz, A. Rotar, A. Silvestru, C. Silvestru and M. Kulcsar, *J. Organomet. Chem.*, **2010**, *695*, 2486-2492.  
DOI: 10.1016/j.jorganchem.2010.07.036
165.  $[2-\{E(\text{CH}_2\text{CH}_2)_2\text{NCH}_2\}\text{C}_6\text{H}_4]_n\text{BiX}_{3-n}$  (E = O, NMe; X = Cl, Br, I; n = 1–3) and  $[2-(\text{Me}_2\text{NCH}_2)\text{C}_6\text{H}_4]\text{BiBr}_2$  – New hypervalent organobismuth(III) compounds, H. J. Breunig, M. G. Nema, C. Silvestru, A. Soran and R. A. Varga, *Z. Anorg. Allg. Chem.*, **2010**, *636*, 2378-2386.  
DOI: 10.1002/zaac.201000233
166. Organobismuth compounds with the pincer ligand 2,6-( $\text{Me}_2\text{NCH}_2$ ) $_2\text{C}_6\text{H}_3$ : Monoorganobismuth(III) carbonate, sulfate, nitrate, and a diorganobismuthenium(III) salt, H. J. Breunig, M. G. Nema, C. Silvestru, A. P. Soran and R. A. Varga, *Dalton Trans.*, **2010**, *39*, 11277-11284.  
DOI: 10.1039/c0dt00927j
167. New N-substituted polyamines. Synthesis, characterization and crystal and molecular structure of  $2-\{[\text{C}_6\text{H}_4(\text{CO})_2\text{NCH}_2\text{CH}_2]_2\text{NCH}_2\}\text{C}_6\text{H}_4\text{Br}$ , M. Coros, D. Domide, M. Vlassa, A. Soran and C. Silvestru, *Rev. Roum. Chim.*, **2010**, *55*, 803-810.
168. Organotin(IV) complexes of  $\beta$ -ketimines. Crystal and molecular structure of  $\text{OC}(\text{Me})\text{CHC}(\text{Me})\text{NHR}-4$  [ $\text{R} = \text{C}_6\text{H}_3^1\text{Pr}_2-2',6'$ ;  $\text{C}_6\text{H}_4\text{Me}-4'$ ],  $\text{Bu}_2\text{SnCl}_2(\text{L})$  and  $[\{\text{Me}_2\text{SnCl}\}_2(\text{L})]_2$  [ $\text{L} = \text{OC}(\text{Me})\text{CHC}(\text{Me})\text{NH}(\text{C}_6\text{H}_3^1\text{Pr}_2-2',6')-4$ ], C. Comşa, A. Cristea, R. A. Varga and C. Silvestru, *Rev. Roum. Chim.*, **2010**, *55*, 811-822.

## 2011

169.  $\mu$ -Carbonato-bis(bis{2-[(diethylamino)methyl]phenyl}bismuth(III)}), A. P. Soran, M. G. Nema, H. J. Breunig and C. Silvestru, *Acta Cryst.*, **2011**, *E67*, m153-m154.  
DOI: 10.1107/S160053681005453X
170. Synthesis and characterization of coordination polymers prepared from  $\text{Cu}^{\text{II}}$  and  $\text{Ni}^{\text{II}}$  cyclam perchlorate and carmoisine, Mihaela Vlassa, G. Borodi, G. Blănița, I. Cojocar, M. Vlassa and C. Silvestru, *Cent. Eur. J. Chem.*, **2011**, *9*, 224-231.  
DOI: 10.2478/s11532-010-0141-9
171. Di- $\mu$ -chlorido-bis[chloridobis(dimethyl sulfoxide- $\kappa\text{O}$ )tin(II)], I. Barbul, R. A. Varga and C. Silvestru, *Acta Cryst.*, **2011**, *E67*, m486.  
DOI: 10.1107/S160053681009895
172. Metallophilic bonding and agostic interactions in gold(I) and silver(I) complexes bearing a thiotetrazole unit, A. Ilie, C. I. Rat, S. Scheutzw, K. Lux, T. M. Klapötke, C. Silvestru and K. Karaghiosoff, *Inorg. Chem.*, **2011**, *50*, 2675-2684.  
DOI: 10.1021/ic102595d
173. Organomercury(II) and -tellurium(II) compounds with the "pincer" ligand 2,6- $[\text{O}(\text{CH}_2\text{CH}_2)_2\text{NCH}_2]_2\text{C}_6\text{H}_3$  – stabilization of an unusual organotellurium(II) cationic species, A. Beleagă, V. R. Bojan, A. Pölnitz, C. I. Raț and C. Silvestru, *Dalton Trans.*, **2011**, *40*, 8830-8838.  
DOI: 10.1039/c1dt10414d

174. Bis(8-methyl-2,8-dicarba-*closo*-dodecarboran-2-yl) triselenide,  
A. Ilie, A. Soran, A. Laguna and C. Silvestru,  
*Acta Cryst.*, **2011**, *E67*, o1908.  
DOI: 10.1107/S1600536811025712
175. From *pseudo*-octahedral to *pseudo*-trigonal bipyramidal configuration: syntheses and molecular structures of 4-*t*-Bu-2,6-[(EtO)<sub>2</sub>P(O)]<sub>2</sub>C<sub>6</sub>H<sub>2</sub>BiCl<sub>2</sub> and [1(*Bi*),3(*P*)-Bi(Cl)OP(O)(OEt)-5-*t*-Bu-7-P(O)(OEt)<sub>2</sub>]C<sub>6</sub>H<sub>2</sub>,  
K. Peveling, M. Schürmann, S. Herres-Pawlis, C. Silvestru and K. Jurkschat,  
*Organometallics*, **2011**, *30*, 5181-5187.  
DOI: 10.1021/om200544r
176. Crystal and molecular structure of potassium 18-crown-6-[2,6-bis(dimethylaminomethyl)phenyl]tin(IV) tetrafluoride,  
A. Rotar, R. A. Varga, M. Schürmann, C. Silvestru and K. Jurkschat,  
*Main Group Metal Chem.*, **2011**, *34*, 57-60.  
DOI: 10.1515/MGMC.2011.017
177. Characterization by vibrational spectroscopy of coordination polymers obtained from Cu<sup>II</sup>, Ni<sup>II</sup> and Zn<sup>II</sup> cyclam perchlorate and amaranth,  
Mihaela Vlăsa, G. Borodi, A. Biriş, G. Blăniţă, M. Vlăsa and C. Silvestru,  
*Rev. Roum. Chim.*, **2011**, *56*, 857-867.

### 2012

178. Diorganobismuth(III) compounds with the pendant arm 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> ligand - isothiocyanate, trifluoroacetate and nitrate,  
M. G. Nema, H. J. Breunig, A. Soran and C. Silvestru,  
*J. Organomet. Chem.*, **2012**, *705*, 23-29.  
DOI: 10.1016/j.jorganchem.2012.01.011
179. Diorganodiselenides and zinc(II) organoselenolates containing (imino)aryl groups of type 2-(RN=CH)C<sub>6</sub>H<sub>4</sub>,  
A. Pöllnitz, C. Silvestru, J.-F. Carpentier and A. Silvestru,  
*Dalton Trans.*, **2012**, *41*, 5060-5070.  
DOI: 10.1039/c2dt30098b
180. Coinage metal complexes with N'NN' and SeNSe ligands – Pincer vs bridging coordination pattern,  
A. Ilie, A. Laguna and C. Silvestru,  
*C. R. Chimie*, **2012**, *15*, 895-903.  
DOI: 10.1016/j.crci.2012.05.012
181. Synthesis and characterization of organoantimony(III)-containing heteropolytungstates,  
M. Barsukova-Stuckart, L. F. Piedra-Garza, B. Gautam, G. Alfaro-Espinoza, N. V. Izarova,  
A. Banerjee, B. S. Bassil, M. S. Ullrich, H. J. Breunig, C. Silvestru and U. Kortz,  
*Inorg. Chem.*, **2012**, *51*, 12015-12022.  
DOI: 10.1021/ic301892s
182. Hypervalent triorganolead(IV) dithiocarbamates containing a 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> group. Crystal and molecular structure of [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]Ph<sub>2</sub>PbS(S)CNR<sub>2</sub> (R = Me, Et),  
A. Cristea, A. Silvestru, D. Mărgineanu and C. Silvestru,  
*Rev. Roum. Chim.*, **2012**, *57*, 305-312.
183. Structural characterization of some new tris(2,6-dimethylphenyl)tin(IV) derivatives,  
I. Barbul, R. A. Varga and C. Silvestru,  
*Rev. Roum. Chim.*, **2012**, *57*, 313-319.

### 2013

184. Organoantimony(III) compounds containing (imino)aryl ligands of the type 2-(RN=CH)C<sub>6</sub>H<sub>4</sub> (R = 2',4',6'-Me<sub>3</sub>C<sub>6</sub>H<sub>2</sub>, 2',6'-<sup>i</sup>Pr<sub>2</sub>C<sub>6</sub>H<sub>3</sub>): bromides and chalcogenides,  
A. M. Preda, C. I. Raţ, C. Silvestru, H. J. Breunig, H. Lang, T. Rüffer and M. Mehring,  
*Dalton Trans.*, **2013**, *42*, 1144-1158.  
DOI: 10.1039/c2dt32494f
185. Hypervalent organoantimony and -bismuth compounds with pendant arm ligands,  
C. I. Raţ, C. Silvestru and H. J. Breunig,  
*Coord. Chem. Rev.*, **2013**, *257*, 818-879.  
DOI: 10.1016/j.ccr.2012.07.026

186. Structural diversity of coordination cores in new homoleptic tetraaryltin(IV) dioxolane, aldehyde and imines. First octacoordinated double helicate tetraorganotin(IV) compound, I. Barbul, R. A. Varga and C. Silvestru, *Eur. J. Inorg. Chem.*, **2013**, 3146-3154.  
DOI: 10.1002/ejic.201300245
187. Diselenolate- and ditelluroate-carborane gold complexes, O. Crespo, M. C. Gimeno, A. Ilie, A. Laguna, I. Ospino and C. Silvestru, *Dalton Trans.*, **2013**, 42, 10454-10459.  
DOI: 10.1039/c3dt50624j
188. The reaction and materials chemistry of  $[\text{Sn}_6(\text{O})_4(\text{OSiMe}_3)_4]$ : chemical vapour deposition of tin oxide, I. Barbul, A. L. Johnson, G. Kociok-Köhn, K. C. Molloy, C. Silvestru and A. L. Sudlow, *ChemPlusChem*, **2013**, 78, 866-874.  
DOI: 10.1002/cplu.201300104
189. Di(imino)aryltin(IV) dichlorides as potential tectons for heterometallic coordination compounds, I. Barbul, R. A. Varga, K. C. Molloy and C. Silvestru, *Dalton Trans.*, **2013**, 42, 15427-15436.  
DOI: 10.1039/c3dt52022f
190. New cobalt(II) complexes with triarylphosphanes, R. Mitea, A. Covaci, C. Silvestru and A. Silvestru, *Rev. Roum. Chim.*, **2013**, 58, 265-273.
191. New group 12 metal complexes with anionic  $[(\text{SePPh}_2)\{\text{OP}(\text{OEt})_2\}\text{N}]^-$  ligands, A. Toth, A. Lupan, C. I. Raț, C. Silvestru and A. Silvestru, *Rev. Roum. Chim.*, **2013**, 58, 393-398.
192. New copper(I) complexes with organophosphorus ligands with XPNSO skeleton, C. Strady, A. Stegarescu, C. Silvestru and A. Silvestru, *Studia Univ. "Babes-Bolyai", Chemia*, **2013**, 58(4), 243-251.

### 2014

193. Hydrogen bonding-based 3D supramolecular architecture of  $[\text{Cu}(\text{CHA})_2][\text{TCM}]\cdot 11\text{H}_2\text{O}$ , Mihaela Vlassa, G. Borodi, C. Silvestru and M. Vlassa, *Cent. Eur. J. Chem.*, **2014**, 12, 14-24.  
DOI: 10.2478/s11532-013-0350-0
194. Organoselenium(II) halides containing the pincer 2,6- $(\text{Me}_2\text{NCH}_2)_2\text{C}_6\text{H}_3$  ligand – experimental and theoretical investigation, A. Pop, A. Silvestru, E. J. Juárez-Pérez, M. Arca, V. Lippolis and C. Silvestru, *Dalton Trans.*, **2014**, 43, 2221-2233.  
DOI: 10.1039/C3DT52886C
195. Palladium(II) complexes with chiral organoantimony(III) ligands. Solution behavior and solid state structures, D. Copolovici, F. Isaia, H. J. Breunig, C. I. Raț and C. Silvestru, *RSC Advances*, **2014**, 4, 26569-26576.  
DOI: 10.1039/c4ra03482a
196. New multidentate potential ligands derived from acetylacetone, D. Oltean, C. Silvestru and A. Silvestru, *Rev. Roum. Chim.*, **2014**, 59, 391-397. (Nr. omagial Eugen SEGAL)
197.  $[2-(\text{Me}_2\text{NCH}_2)\text{C}_6\text{H}_4]\text{SnMeCl}_2$  and its hydrolysis product,  $[\{2-(\text{Me}_2\text{NCH}_2)\text{C}_6\text{H}_4\}\text{SnMe}(\text{OH})(\text{OH}_2)]_2^{2+}\cdot 2\text{Br}^-$  - solution and solid state characterization, A.-A. Someșan, R. A. Varga and C. Silvestru, *Rev. Roum. Chim.*, **2014**, 59, 931-938. (Nr. omagial Candin LITEANU)



**2015**

198. Synthesis and structural characterization of substituted phenols with *m*-terphenyl backbone, 2,4,6-R<sub>3</sub>C<sub>6</sub>H<sub>2</sub>OH (R = 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>2</sub>, Me<sub>5</sub>C<sub>6</sub>), A. B. Şolea, M. Olaru, C. Silvestru and C. I. Raţ, *Z. Naturforsch., B: Chem. Sci.*, **2015**, *70*, 77-81.  
DOI: 10.1515/znb-2014-0180
199. A general route to monoorganopnicogen(III) (M = Sb, Bi) compounds with a pincer (N,C,N) group and oxo ligands, G. Strîmb, A. Pöllnitz, C. I. Raţ and C. Silvestru, *Dalton Trans.*, **2015**, *44*, 9927-9942.  
DOI: 10.1039/c5dt00603a
200. Bis(4-pyridyl)mercury – a new linear tecton in crystal engineering: coordination polymers and co-crystallization processes, T. Mocanu, C. I. Raţ, C. Maxim, S. Shova, V. Tudor, C. Silvestru and M. Andruh, *CrystEngComm*, **2015**, *17*, 5474-5487.  
DOI: 10.1039/c5ce00388a
201. Homoleptic organometallic compounds of heavy pnictogens. Crystal and molecular structure of [2-(<sup>i</sup>Pr<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]<sub>3</sub>M (M = Sb, Bi), I. Chircă, A. Soran, A. Silvestru and C. Silvestru, *Rev. Roum. Chim.*, **2015**, *60*, 643-650. (Nr. omagial Valer FARCASAN)
202. Synthesis and characterization of 2-[Mes(Me)NCH<sub>2</sub>]C<sub>6</sub>H<sub>4</sub>Br and 2-[Mes{(O)CH}NCH<sub>2</sub>]C<sub>6</sub>H<sub>4</sub>Br – Precursors for novel one pendant arm ligands, G. Strîmb, C. I. Raţ and C. Silvestru, *Rev. Roum. Chim.*, **2015**, *60*, 651-657. (Nr. omagial Valer FARCASAN)
203. Organoantimony(III)-containing tungstoarsenates(III): from controlled assembly to biological activity, P. Yang, B. S. Bassil, Z. Lin, A. Haider, G. Alfaro-Espinoza, M. S. Ullrich, C. Silvestru and U. Kortz, *Chem. Eur. J.*, **2015**, *21*, 15600-15606.  
DOI: 10.1002/chem.201502398
204. Hypervalent diorganoantimony(III) fluorides *via* diorganoantimony(III) cations – a general method of synthesis, A. M. Preda, C. I. Raţ, C. Silvestru, H. Lang, T. Ruffer and M. Mehring, *RSC Advances*, **2015**, *5*, 99832-99840.  
DOI: 10.1039/c5ra21788a
205. Ti<sub>2</sub>-containing 18-tungsto-2-arsenate(III) monolacunary host and the incorporation of a phenylantimony(III) guest, K.-Y. Wang, Z. Lin, B. S. Bassil, X. Xing, A. Haider, B. Keita, G. Zhang, C. Silvestru and U. Kortz, *Inorg. Chem.*, **2015**, *54*, 10530-10532.  
DOI: 10.1021/acs.inorgchem.5b01863
206. Triorganotin(IV) halides – precursors for new organotin(IV) tectons. Synthesis and structural characterization of [2-((CH<sub>2</sub>O)<sub>2</sub>CH)C<sub>6</sub>H<sub>4</sub>]<sub>3</sub>SnI and [2-(O=CH)C<sub>6</sub>H<sub>4</sub>]<sub>3</sub>SnCl, A.-A. Someşan, C. Silvestru and R. A. Varga, *Rev. Roum. Chim.*, **2015**, *accepted*.

**2016**

207. 19-Tungstodiarsenate(III) functionalized by organoantimony(III) groups: tuning the structure-bioactivity relationship, P. Yang, Z. Lin, G. Alfaro-Espinoza, M. S. Ullrich, C. I. Raţ, C. Silvestru and U. Kortz., *Inorg. Chem.*, **2016**, *55*, 251-258.  
DOI: 10.1021/acs.inorgchem.5b02189
208. Tris(3-pyridyl)- and tris(4-pyridyl)phosphine chalcogenides and their complexes with ZnTPP (TPP = tetraphenylporphyrinate), L. Dubován, A. Pöllnitz and C. Silvestru, *Eur. J. Inorg. Chem.*, **2016**, 1521-1527.  
DOI: 10.1002/ejic.201501333

209. Mixed triorganobismuthines  $RAr_2Bi$  [ $Ar = C_6F_5, 2,4,6-(C_6F_5)_3C_6H_2$ ] and hypervalent racemic Bi-chiral Diorganobismuth(III) bromides  $RArBiBr$  ( $R' = C_6F_5, Mes, Ph$ ) with the pendant arm ligand  $R = 2-(Me_2NCH_2)C_6H_4$ . Influences of the organic substituent, M. Olaru, M. Nema, A. Soran, H. J. Breunig and C. Silvestru, *Dalton Trans.*, **2016**, *in press*.  
DOI: 10.1039/C5DT05074J
210. Tetra-antimony(III)-bridged 18-tungsto-2-arsenates(V),  $[(LSb^{III})_4(A-\alpha-As^V W_9O_{34})_2]^{10-}$  ( $L = Ph, OH$ ): turning bioactivity on and off by ligand substitution, P. Yang, Z. Lin, B. S. Bassil, G. Alfaro-Espinoza, M. S. Ullrich, M.-X. Li, C. Silvestru and U. Kortz, *Inorg. Chem.*, **2016**, *in press*.  
DOI: 10.1021/acs.inorgchem.6b00107
211. New hypervalent organoselenium compounds with  $O \rightarrow Se$  intramolecular interactions, R. A. Popa, A. Pop, C. Silvestru and A. Silvestru, *Rev. Roum. Chim.*, **2016**, *60*(6-7), *accepted*. (Nr. omagial Dumitru OANCEA)
212. Heterobimetallic tin(II) oxido clusters of the type  $[\{Sn_6(\mu_3-O)_4(\mu_3-OCH_2R)_4\} \{W(CO)_5\}_4]$  and  $[\{Sn_5(\mu_3-O)_2(\mu-OCH_2R)_4(\mu_3-OCH_2R)_2\} \{Fe(CO)_4\}_2]$ , L. Mertens, C. Leonhardt, T. Ruffer, A. Toma, C. Silvestru and M. Mehring, *J. Organomet. Chem.*, **2016**, *in press*.  
DOI: 10.1016/j.jorganchem.2016.04.026

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