

**FORMAT
EUROPEAN
CURRICULUM VITAE**



INFORMATII PERSONALE

Nume
Adresa
Telefon
Fax
E-mail

SILVESTRU CRISTIAN

Nationalitate romana

Data nasterii

EXPERIENTA PROFESIONALA

- Perioada 1980 - 1982
• Numele si adresa angajatorului Exploatarea miniera "Aghires", Aghires, jud. Cluj
• Tipul activitatii sau Sector de activitate Productie de caolin si nisip refractar
• Functia sau postul ocupat chimist
• Principalele activitati si responsabilitati Analize de laborator (dar si intocmire de harti topografice, coordonare intretinere drumuri in cariera)
- Perioada 1982 - 1989
• Numele si adresa angajatorului Institutul de Energetica Chimica si Biochimica, Filiala Cluj-Napoca, Universitatea Babes-Bolyai, Cluj-Napoca
• Tipul activitatii sau Sector de activitate cercetare
• Functia sau postul ocupat chimist
• Principalele activitati si responsabilitati Studii-cercetare in domeniul chimiei staniu- si siliciu-organice
Contracte de cercetare cu unitati din industrie
- Perioada 1989 - 1990
• Numele si adresa angajatorului Facultatea de Chimie si Inginerie Chimica, Universitatea Babes-Bolyai, Cluj-Napoca
• Tipul activitatii sau Sector de activitate cercetare
• Functia sau postul ocupat chimist
• Principalele activitati si responsabilitati Cercetare in chimie organometalica
- Perioada 1990 - prezent
• Numele si adresa angajatorului Facultatea de Chimie si Inginerie Chimica, Universitatea Babes-Bolyai, Cluj-Napoca

- Tipul activitatii sau Sector de activitate
- Functia sau postul ocupat

Didactic + cercetere

1990-1993 – lector

1993-1995 – conferentiar

1995-prezent – profesor

Predare cursuri + lucrari de laborator

Cercetare in chimie anorganica si organometalica

- Principalele activitati si responsabilitati

EDUCATIE SI FORMARE

- Perioada

• Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala

- Domeniul studiat/aptitudini ocupationale

- Tipul calificarii/Diploma obtinuta

- Nivelul de clasificare a formei de instruire/invatamant

sept. 1975 – iul. 1979

Facultatea de Chimiesi Inginerie Chimica, Universitatea Babes-Bolyai, Cluj-Napoca

Chimie

Diploma in Chimie
licenta

- Perioada

• Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala

- Domeniul studiat/aptitudini ocupationale

- Tipul calificarii/Diploma obtinuta

- Nivelul de clasificare a formei de instruire/invatamant

sept. 1979 – iul. 1980

Facultatea de Chimiesi Inginerie Chimica, Universitatea Babes-Bolyai, Cluj-Napoca

Chimie Anorganica

Diploma de specializare in Chimie Anorganica
master

- Perioada

• Numele si tipul institutiei de invatamant si al organizatiei profesionale prin care s-a realizat formarea profesionala

- Domeniul studiat/aptitudini ocupationale

- Tipul calificarii/Diploma obtinuta

- Nivelul de clasificare a formei de instruire/invatamant

oct. 1985 – apr. 1990

Facultatea de Chimiesi Inginerie Chimica, Universitatea Babes-Bolyai, Cluj-Napoca

Chimie Organometalica

Diploma de Doctor in Chimie
doctorat

APTITUDINI SI COMPETENTE

PROFESIONALE

Dobandite in cursul vietii si carierei dar care nu sunt recunoscute neaparat printr-un certificate sau o diploma.

LIMBA MATERNA

romana

LIMBI STRAINE CUNOSCUTE

- abilitatea de a citi
- abilitatea de a scrie
- abilitatea de a vorbi

Engleza
foarte bine
foarte bine
foarte bine

- abilitatea de a citi
- abilitatea de a scrie
- abilitatea de a vorbi

Spaniola
foarte bine
bine
foarte bine

- abilitatea de a citi
- abilitatea de a scrie
- abilitatea de a vorbi

Franceza
foarte bine
bine
bine

APTITUDINI SI COMPETENTE SOCIALE

- relatii foarte bune si bune cu colegii din corpul didactic si cercetare al departamentului, respective cu membrii (studenti cercetatori) grupului de cercetare pe care il coordonez

APTITUDINI SI COMPETENTE ORGANIZATORICE

- conducator de doctorat – coordonez activitatea unui grup de cercetare format din 2 cadre didactice, 2 cercetatori, 8-12 doctoranzi, studenti la master si licenta
- am organizat al CENTRUL NATIONAL DE DIFRACTOMETRIE DE RAZE X (Facultatea de Chimie si Inginerie Chimica, Universitatea Babes-Bolyai, Cluj-Napoca), printr-un proiect de tip BCUM, si coordonez activitatea acestui centru din 2001
- am organizat si coordonat activitatea de amenajare si dotare, la stadarde similare cu cele din universitati europene de prestigiu, a 3 laboratoare de cercetare (in care isi desfasoara activitatea de cercetare grupul pe care il conduc) si a unui laborator didactic, pentru chimie coordinativa si organometalica (vezi WEB page: WEB page: <http://chem.ubbcluj.ro/~richy/>)

• Experienta manageriala:

- Director de proiect in cadrul programului **Cercetare de Excelenta – „Compusi organometalici hipervalenti ai elementelor din grupele principale (Sn, Pb, Sb, Bi, Se, Te) - HYPORGMET”**
- Co-director al proiectului „*Hypervalenz*” (impreuna cu Prof. Dr. Hans J. Breunig, Bremen Universitat, Germania), finantat de Deutsches Forschungs Gemeinschaft (2001 – 2003, 40.000 DM pt. UBB Cluj)
- Director de proiect la 12 proiecte multianuale (CNCSIS, inclusiv Banca Mondiala, Academia Romana, MCT-ANSTI, CERES) in perioada 1995 - 2008
- Director al CENTRULUI NATIONAL DE DIFRACTOMETRIE DE RAZE X (Facultatea de Chimie si Inginerie Chimica, Universitatea "Babes-Bolyai", Cluj-Napoca) (2001 – prezent)
- Prodecan al Facultatii de Chimie si Inginerie Chimica (1996 - 2000)
- Participant la Grupul de lucru "UNIVERSITY ADMINISTRATION AND

FINANCE" - UNIVERSITY PROJECT (10-14 martie 1997), organizat de SALZBURG SEMINAR (Austria)

- Membru in Comisia 1 a CNCSIS – Matematica si stiintele vietii (domeniul Chimie) (2006-2008)

APTITUDINI SI COMPETENTE
TEHNICE

• **Publicatii:**

- 2 carti in strainatate (co-autor prof. Dr. Ionel Haiduc)
- 3 capitole in carti publicate in strainatate
- 141 de articole de specialitate (128 in reviste de specialitate din strainatate, 13 in reviste din tara – peste 130 in reviste cotate ISI)

• **Membru al asociatiilor profesionale:** Societatea de Chimie din Romania

- **Activitate editoria:**
 - Regional Editor for Organometallic Chemistry - *Central European Journal of Chemistry* (<http://www.cesj.com/chemistry.html>)
 - membru in Editorial Advisory Board of *The Open Inorganic Chemistry Journal* (<http://www.bentham.org/open/toicj/>)
 - membru in colectivul de redactie al revistelor *Studia Univ. "Babes- Bolyai", Chemia, Acta Universitatis Cibinensis*

Referent pentru: *Applied Organometallic Chemistry, Dalton Transactions, Inorganic Chemistry, Inorganica Chimica Acta, Journal of Organometallic Chemistry, Main Group Metal Chemistry, Polyhedron*

- **Experienta in proiecte postdoctorale:** - un postdoc din Turcia cu bursa NATO

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2 postdoci romani
in cadrul programului **Cercetare de Excelenta** –
„*Compusi Organometalici ai Mercurului, Seleniului si
Telurului cu Coordinare Intramoleculara - Sinteza,
Caracterizare Structurala in Solutie si Stare Solida,
Reactivitate*”

ALTE APTITUDINI SI
COMPETENTE

- Premiul "Gh. Spacu" al Academiei Romane pentru studii asupra proprietatilor antitumorale ale compusilor organometalici (1992 - co-autori: Dr. Carmen Socaciu si Dr. Adela Bara)
- Diplome de Excelenta Stiintifica (2002, 2003 si 2005-2007) acordate de catre Universitatea "Babes-Bolyai" pentru publicatii stiintifice si contributii la obtinerea de granturi, programe si dotari de varf pentru laboratoarele Universitatii

PERMIS DE CONDUCERE

Tip B – Numar permis C00196622J

LIST OF PUBLICATIONS

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.

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,
Cristian 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

III. SCIENTIFIC PUBLICATIONS

1. Coordination and organometallic compounds in cancer chemotherapy, (Combinăpile coordinative și organometalice în chimioterapie cancerului), C. Silvestru and I. Haiduc, *Rev. Chim. (București)*, **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 "Colecția Enciclopedia Oncologica", Vol.12 - "Cancer - Chimioterapie actuală", **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.
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.
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.
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.
9. Synthesis and characterization of di- and triorganotin(IV) dimethyldithiophosphinates, C. Silvestru and I. Haiduc, *J. Organomet. Chem.*, **1989**, 365, 83-90.
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.

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.

1993

18. A new inorganic metallocycle containing tin, sulfur, phosphorus and nitrogen. Crystal and molecular structure of spirobicyclic $Me_2Sn(SPPPh_2NPPPh_2S)_2$, I. Haiduc, C. Silvestru, H. W. Roesky, H.-G. Schmidt and M. Noltemeyer, *Polyhedron*, **1993**, 12, 69-75.
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.
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.
21. Synthesis, spectroscopic characterization, and molecular structure of dimeric (diethyldithiophosphinato)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.
22. Synthesis and characterization of some new organotin(IV) derivatives of tetraphenyldithioimidodiphosphinic 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) dimethyldithiophosphinate, $Bi(S_2PMe_2)_3$: 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.
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.
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 $\text{Pb}^{\cdots}\text{S}$ secondary interactions, K. H. Ebert, H. J. Breunig, C. Silvestru, I. Stefan and I. Haiduc, *Inorg. Chem.*, **1994**, 33, 1695-1699.
27. Synthesis and structures of dimesitylbismuth(III) bromide, Mes_2BiBr , 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.
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.
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 $\text{As}^{\cdots}\text{S}$ secondary bonding, R. Cea-Olivares, J.-G. Alvarado, G. Espinosa-Perez, C. Silvestru and I. Haiduc, *J. Chem. Soc., Dalton Trans.*, **1994**, 2191-2195.
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 $\text{Sb}^{\cdots}\text{S}$ interactions, K. H. Ebert, H. J. Breunig, C. Silvestru and I. Haiduc, *Polyhedron*, **1994**, 13, 2531-2535.
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 $\text{Sn}^{\cdots}\text{N}$ bonds, R. Cea-Olivares, O. Jimenez Sandoval, G. Espinosa-Perez and C. Silvestru, *Polyhedron*, **1994**, 13, 2809-2818.
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.
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 $\text{Sn}^{\cdots}\text{N}$ bonds, R. Cea-Olivares, O. Jimenez Sandoval, G. Espinosa-Perez and C. Silvestru, *J. Organomet. Chem.*, **1994**, 484, 33-36.
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.
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.

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.

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* $\text{Pb} \cdots \text{S}$ interactions,
C. Silvestru, I. Haiduc, R. Cea-Olivares and S. Hernandez-Ortega,
Inorg. Chim. Acta, **1995**, 233, 151-154.
39. X-ray crystal structure of (tetraphenyldithioimidodiphosphinato)(triphenylphosphine)copper(I), $(\text{Ph}_3\text{P})\text{Cu}(\text{SPPH}_2)_2\text{N}$, a monocyclic inorganic (carbon-free) chelate ring compound,
I. Haiduc, R. Cea-Olivares, R. A. Toscano and C. Silvestru,
Polyhedron, **1995**, 14, 1067-1071.
40. Solid state supramolecular structure of (tetraphenyldithioimidodiphosphinato)trimethyltin(IV).benzene, $[\text{Me}_3\text{Sn}(\text{SPPH}_2)_2\text{N} \cdot \text{C}_6\text{H}_6]_n$, 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.
41. Crystal and molecular structure of tetramethyldithioimidodiphosphinic acid, $(\text{SPMe}_2)_2\text{NH}$, and its cobalt(II) complex, $\text{Co}[(\text{SPMe}_2)_2\text{N}_2]_2$, containing a tetrahedral CoS_4 core,
C. Silvestru, R. Rösler, I. Haiduc, R. Cea-Olivares and G. Espinosa-Perez,
Inorg. Chem., **1995**, 34, 3352-3354.
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 $\text{O}(\text{CH}_2\text{CH}_2\text{S})_2\text{Sb}-\text{SCH}_2\text{CH}_2\text{O}-\text{CH}_2\text{CH}_2\text{S}-\text{Sb}(\text{SCH}_2\text{CH}_2)_2\text{O}$, 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.
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.
44. Synthesis, spectroscopic characterization and crystal and molecular structure of tetrakis(carbonyl)-(tetraphenyldithioimidodiphosphinato)manganese(I), $\text{Mn}(\text{CO})_4[(\text{SPPH}_2)_2\text{N}]$,
N. Zuniga-Villareal, C. Silvestru, M. Reyes Lezama, S. Hernandez-Ortega and C. Alvarez Toledano,
J. Organomet. Chem., **1995**, 496, 169-174.
45. Synthesis and characterization of phenoxarsin-10-yl-2- R_2N -cyclopent-1-ene-1-carbodithioate ($\text{R} = \text{H}, \text{C}_2\text{H}_5, \text{cyclo-C}_6\text{H}_{11}\text{CH}_2$) and crystal and molecular structure of the 2-amino ($\text{R} = \text{H}$) 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.
46. Unexpected linear P-N-P fragment in the anion $[\text{SPh}_2\text{PNPPh}_2\text{S}]^-$. Crystal structure of bis(triphenylphosphine)iminium dithiotetraphenylimidodiphosphinate $[\text{Ph}_3\text{PNPPh}_3]^+[\text{SPh}_2\text{PNPPh}_2\text{S}]^-$,
I. Haiduc, R. Cea-Olivares, S. Hernandez-Ortega and C. Silvestru,
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Cluj-Napoca,
November 20, 2008

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