

PROFESSOR IONEL HAIDUC

This year Professor Ionel Haiduc, Member of the Roumanian Academy, celebrates his 70th birthday. Born in Cluj on May 9th, 1937, Ionel Haiduc graduated the Faculty of Chemistry of the University of Cluj in 1959. He distinguished himself as an exceptional personality, dedicated for study, with a remarkable capacity of inter-relating, a huge amount of knowledge and an unusual scientific curiosity.

In 1964, he obtained the equivalent of a PhD in chemistry at the M.V. Lomonosov Institute of Fine Chemicals Technology in Moscow under a guidance of the Academician K.A. Andrianov.

All the scientific life of Acad. Ionel Haiduc was developed at the Faculty of Chemistry of the University of Cluj, from 1959 until the present time. Full professor at the age of 36, he completed his formation as a researcher, in U.S.A., between 1966 and 1972, during three postdoctoral stages. Between 1990 and 1993 he was the Rector of "Babes-Bolyai" University of Cluj-Napoca and the vice-president of National Conference of Rectors. The passion for science in general and for chemistry in particular, the joy of sharing knowledge was appreciated by generations of students who often would have liked the courses to be never-ending stories. He is an outstanding professor and mentor recognized by the whole academic community.

The scientific interests of Professor Ionel Haiduc covers several areas: Coordination and organometallic chemistry of Main Group elements, Supramolecular organometallic chemistry, Inorganic rings, Biologically active metal compounds (including antitumor activity), Inorganic chemistry nomenclature and systematization. In all these areas Professor Haiduc had a pioneering contribution in Romania.

A creative mind, born to be a leader, Professor. Ionel Haiduc was always connected to the different aspects of the chemists' community life. Like a member of many academic bodies, he was involved in Science policy and management, as an active actor fighting for quality in the academic life and as author of publications.

It is very difficult to summarize the monumental contribution of Acad. Ionel Haiduc to the fields of inorganic and organometallic chemistry; his scientific work is covered by books (published in Romanian, Polish, English and Greek), 25 chapters in collective volumes and more than 340 scientific and review articles (as shown in the list of publications). The chemistry of Inorganic Ring Systems - several books published: the early Romanian version, *Introducere in chimia ciclurilor anorganice* (1960), followed by the two volumes of *The Chemistry of Inorganic Ring Systems* (Wiley, 1970) and *The Chemistry of Inorganic Homo- and Heterocycles* (Academic Press 1987) - remains one of the favorite area of interest.

"Chimia Compusilor metalorganici" (The Chemistry of Metalorganic Compounds) served as an unique source of information for many years for the Roumanian students, and actually it is the beginning of Organometallic Chemistry in Roumania thought in a systematic way. The extension in English published with J.J. Zuckerman (*Basic Organometallic Chemistry*) is still a reference book used by many students whole around the world. The applications of organometallic compounds in various domains, including medicine (see the two volumes of *Organometallic in Cancer Chemotherapy*) was completing the studies on their synthesis and structural characterization.

The most recent book published "Supramolecular Organometallic Chemistry" (co-authored by F. Edelmann), with the Foreword written by Jean-Marie Lehn, Nobel prize winner, describes not only a major field of chemistry, but also a vivid interface between chemistry, biology, physics, and materials science. The prestigious ACS journal *Crystal Growth & Design* quoted: "As a discrete field, supramolecular organometallic chemistry did not exist until the publication of Haiduc and Edelmann's book *Supramolecular Organometallic Chemistry*".

His brilliant career received a fully deserved recognition. The Roumanian Academy offered him the "Gh. Spacu" prize in 1974 and elected him as corresponding member in 1990 and as full member in 1991. He was president of the Cluj-branch (1995-2006) and vice-president of the Roumanian Academy (1998-2000). Starting 2006 he is the President of the Roumanian Academy. Many other national and international awards and prizes mark the exceptional carrier of Ionel Haiduc. To name only a few of them: Humboldt

Forschungsaufenthalt (1997), Gauss Professorship, Göttingen Academy (1998-1999), "Pro Colaboratione" Award, Hungarian Academy of Sciences, Debrecen Branch (1999), Honour Diploma, Presidium of the Moldavian Academy of Sciences (1999), Honorary Member of the Academy of Sciences of Moldova (2002), elected member of Academia Europaea (London) (2002), *Doctor honoris causa*, Technical University "Gh. Assachi", Iasi, Romania (2002) and Polytechnical University of Timisoara, Romania (2004), Prize of Romanian Chemical Society (2004).

He also was awarded by the Presidents of Romania with "*Star of Romania*" ["*Steaua Romaniei*"] (2000 – mare ofiter, 2006 "mare cruce") and in 2006 and the "*Order of Honour*," by the President of Republic Moldova.

The exceptional value of Professor Ionel Haiduc was also internationally recognized: elected as member of the editorial scientific board of 9 journals, member of IUPAC, of the International Council of Main Group Chemists and of the Alliance of the Universities for Democracy, he was also invited as visiting professor in USA, Brazil, Spain, Germany, Mexico and Singapore.

With his scientific horizon, his sense of humor and his kindness, he was a perfect ambassador of the Romanian school of chemistry.

At his 70th anniversary, the Editorial Board of Revue Roumaine de Chimie along with the whole community of Romanian chemists present to Professor Ionel Haiduc the very best wishes for a long healthy and fruitful life, many successes in the years to come and express their appreciation for his entire work.

The Editorial Board

LIST OF PUBLICATIONS

I. BOOKS

8. I. Haiduc and F. T. Edelman

Supramolecular Organometallic Chemistry

Wiley-VCH, Weinheim, New York, 1999, 470 pag.

7. I. Haiduc and C. Silvestru

Organometallics in Cancer Chemotherapy. Volume 2. Transition Metal Compounds

CRC Press, Inc., Boca Raton, Florida, 1990 (366 pag.)

6. I. Haiduc and C. Silvestru

Organometallics in Cancer Chemotherapy. Volume 1. Main Group Metal Compounds

CRC Press, Inc., Boca Raton, Florida, 1989 (254 pag.)

5. I. Haiduc and D. B. Sowerby (Editors)

The Chemistry of Inorganic Homo- and Heterocycles

Academic Press, London, New York, 1987 (2 vols.)

(Vol.1, 416 pag.; vol.2, 460 pag.)

4. I. Haiduc and J. J. Zuckerman

Basic Organometallic Chemistry

Walter de Gruyter Publ. Co., Berlin, New York, 1985 (488 pag.)

Greek translation (Athens, 1987)

I. Haiduc, J.J. Zuckerman

Βασική Οργανομεταλλική Χημεία

Εκδοσειξ Παπαξηση, Αθηνά 1987 (414 pag.)

3. I. Haiduc

Chimia compușilor metalorganici

Editura Științifică, București, 1974 (492 pag.)

2. I. Haiduc

The Chemistry of Inorganic Ring Systems

Wiley-Interscience, London, New York, 1970, 2 vols.

(Vol.1, 622 pag.; vol. 2, 575 pag.)

1. I. Haiduc

Introducere în chimia ciclurilor anorganice

Editura Academiei, București, 1960 (338 pag.)

Polish translation:

I. Haiduc

Wstęp do chemii nieorganicznych związków pierścieniowych

PWN Warszawa, 1964 (369 pag.) (updated and revised version).

II. ARTICLES and CHAPTERS IN BOOKS

2007

347. I. Haiduc,

1,1-Dithiolato ligands and related selenium and tellurium compounds

in vol. **Handbook of Chalcogen Chemistry. New Perspectives in Sulfur, Selenium and Tellurium**

Edited by F. A. Devillanova, Royal Society of Chemistry, London, 2007, p. 593-643.

2006

346. M. Câmpian, I. Haiduc and E. R. T. Tiekink

Bis(O-benzyl dithiocarbonato-S,S)bis(3-methylpyridine-N)nickel(II).

Acta Cryst., **2006**, E62, m3516–m3517.

345. I. Haiduc, H. K. Sharma and K. H. Pannell

Organolead Chemistry

in vol. **Lead. Chemistry, analytical aspects, environmental impact and health effects**

Edited by José S. Casas and José Sordo, Elsevier Publ. Co., Amsterdam, 2006, pag. 100-157.

344. I. Haiduc, G. Mezei, R. Micu-Semeniuc, F. T. Edelman and A. Fischer

Differing Coordination Modes of (O-Alkyl)-p-Ethoxyphenyldithiophosphonato Ligands in Copper(I),

Silver(I) and Gold(I) Triphenylphosphine Complexes

Z. anorg. Allg. Chem., **2006**, 632, 295-300.

2005

343. I. Haiduc

Phosphorus-Nitrogen Compounds

in vol. **Encyclopedia of Inorganic Chemistry-II, Edited by R. B. King**

J. Wiley & Sons, London, New York, Sept. 2005, pag. 4329-4355.

342. I. Haiduc

Inorganic Ring Systems

in vol. **Encyclopedia of Inorganic Chemistry-II, Edited by R. B. King**

J. Wiley & Sons, London, New York, Sept. 2005, pag. 2028-2055.

341. E. R.T. Tiekink and I.Haiduc

Stereochemical aspects of metal xanthate complexes. Molecular structures and supramolecular self-assembly in vol. **Progress in Inorganic Chemistry (Edited by K. D. Karlin)**, J.Wiley & Sons, London, New York, 2005, vol. 54, Chapter 3, pp. 127-319.

340. R. N. Kapoor, P. Guillory, L. Schulte, F. Cervantes-Lee, I. Haiduc, L. Párkányi and K. H. Pannell

Di(*p*-*tert*-butylphenyl)-*N,N*-di-(*iso*-butyl)carbamoylmethylphosphine oxide and its organotin and uranyl adducts: structural and spectroscopic characterization

Appl. Organomet. Chem., **2005**, *19*, 510-517.

339. H. Sharma, F. Cervantes-Lee, I. Haiduc and K. H. Pannell

Unprecedented self-assembled cyclic hexamer of ferrocenyldimethylsilanol, [FcSiMe₂OH]₆

(Fc = η⁵-C₅H₅)Fe(η⁵-C₅H₄)

Appl. Organomet. Chem., **2005**, *19*, 437-439.

338. A. Deák, S. Kárpáti, G. Vanko, A. Kálmán and I. Haiduc

Combining coordination chemistry with hydrogen bonds: perturbation of the structures by interaction of an organotin(IV) complex with O-donor solvent molecules

Inorg. Chim. Acta, **2005**, *358*, 1012-1018.

2004

337. I. Haiduc

Metals in medicine – a promising area of interdisciplinary research

in vol. **Metal Elements in Environment, Medicine and Biology**, Edited by Z. Garban and P. Dragan, Tome VI, Publishing House “Eurobit”, Tmisioara, 2004, p. 27-34

336. I. Haiduc, R. Micu-Semeniuc, R. F. Semeniuc, M. Câmpian, A. Fischer and F. T. Edelmann

Molecular structure and solid state supramolecular self-organization of nickel(II)di(methoxyethylxanthato) bi(pyridine) adduct, Ni(S₂COCH₂CH₂OCH₃)₂.2C₅H₅N

Rev. Roum. Chim., **2004**, *49*, 177-184.

335. I. Haiduc

Secondary bonding

in vol. **Encyclopedia of Supramolecular Chemistry**, Edited by J. Steed and J. Atwood, Marcel Dekker, Inc., New York, 2004, p. 1215-1224.

334. I. Haiduc

Silicone grease: a serendipitous reagent for the synthesis of exotic molecular and supramolecular compounds

Organometallics, **2004**, *23*, 3-8.

2003

333. I. Haiduc, R. F. Semeniuc, M. Câmpian, V. C. Kravtsov, Y. A. Simonov and J. Lipkowski

The reaction of nickel(II) xanthates with tetraphenyldiphosphinoethane (dppe) revisited. Formation and crystal structures of Ni₃S₂(S₂COR)₂(dppe) (R = Me, Et; dppe = Ph₂PCH₂CH₂PPh₂) at room temperature and of Ni(S₂CO)(dppe) at 150 K

Polyhedron, **2003**, *22*, 2895-2900.

332. I. Haiduc

1,1-Dithiolato Ligands

Comprehensive Coordination Chemistry II. From Biology to Nanotechnology, J. A. McCleverty, T. J. Meyer, Editors-in-Chief, Volume 1, Fundamentals, Edited by A. B. P. Lever, Elsevier, 2003, Chapter 1.15, pag. 349-376.

331. I. Haiduc

Dichalcogenoimidodiphosph(in)ate Ligands

Comprehensive Coordination Chemistry II. From Biology to Nanotechnology, J. A. McCleverty, T. J. Meyer, Editors-in-Chief, Volume 1, Fundamentals, Edited by A. B. P. Lever. Elsevier, 2003. Chapter 1.14, pag. 323-347.

330. J. S. Casas, A. Castineiras, I. Haiduc, A. Sánchez, R. F. Semeniuc and J. Sordo

Supramolecular Self-Assembly of $\text{Ph}_2\text{TI}(\text{S}_2\text{COMe})$ Based on a Rare Coordination Mode of the Xanthate Ligand and Thallium $\cdots\pi$ -Phenyl Interactions

J. Mol. Struct., **2003**, 656, 225-230.

329. H. W. Roesky, I. Haiduc and N. Hosmane

Organometallic oxides of main group and transition elements downsizing inorganic solids to small molecular fragments.

Chem. Revs., **2003**, 103, 2579-2596.

328. F. T. Edelmann, A. Fischer and I. Haiduc:

Two structurally differing (heterogeometric) mesityltellurium(II) phosphor-1,1-dithiolates: the first monomeric dicoordinate MesTeS(S)PPh_2 and a self-assembled tricoordinate $[\text{MesTeS(S)P(OPr}^i)_2]_x$

Inorg. Chem. Commun., **2003**, 6, 958-960.

327. M. F. Mahon, K. C. Molloy, M. M. Venter, I. Haiduc

Unsymmetrically-substituted 2,4,6-trimercaptotriazine: synthesis and reaction chemistry of $\text{C}_3\text{N}_3\text{S}_3\text{H}_2\text{Na}$, including the structures of $\text{C}_3\text{N}_3\text{S}_3\text{H}_2\text{Na}\cdot 3\text{H}_2\text{O}$ and $\text{C}_3\text{N}_3\text{S}_3\text{H}_2\text{Cu}(\text{PPh}_3)_2$

Inorganica Chimica Acta, **2003**, 348, 75-81.

2002

326. M. D. Banciu, A. T. Balaban, C. Draghici, I. Haiduc and O. Ivanciuc

Unexpected formation of 2,6,7-triphenylcyclopenta-[c]pyran from the reaction of 1,2-diphenylethanedione (benzil) with cyclopentadiene

Rev. Roum. Chim., **2002**, 47, 705-713 (pub. 2003)

325. H. K. Sharma, I. Haiduc and K. H. Pannell

Transition metal complexes of germanium, tin and lead

in vol. **"The Chemistry of Organic Germanium, Tin and Lead Compounds"**, Editor: Zvi Rappoport John Wiley & Sons, Ltd, Chichester, UK, 2002, Vol. 2 (Part 2), Chapter 17, pp. 1241-1332.

324. J. Zukerman-Schpector, I. Haiduc, M. J. Dabdoub, J. C. Biazotto, A.L. Braga, L. Dornelles and I. Caracelli

Dichloro-bis(2-chloro-2-phenyl-vinyl)Te(IV) and dibromo-bis(2-bromo-2-phenyl-vinyl)Te(IV): supramolecular self-assembly through different π -aryl interactions

Z. Kristallogr., **2002**, 217, 609-613.

323. J. Zukerman-Schpector, I. Haiduc, R. L. Camillo, J. Comasseto, R. L. Oliveira, R. Cunha and A. George
Supramolecular self-assembly through tellurium \cdots halogen secondary bonds: A hexagonal grid of Te_2Cl_2 and Te_6Cl_6 rings in the solid state structure of 1,1,3-trichloro-2,4,5,6-tetrahydro-1*H*-1 λ^4 -benzo[b]tellurophene.

Can. J. Chem., **2002**, 80, 1530-1537

322. L. Y. Goh, Z. Weng, W. K. Leong, J. J. Vittal, and I. Haiduc

An organometallic radical route to bis(phosphido)- and hydrido-phosphido-bridged metal-metal-bonded complexes of cyclopentadienylchromium via desulfurization of thiophosphinito ligands

Organometallics, **2002**, 21, 5287-5291.

321. O. Cozar, R. Micu-Semeniuc, L. David and I. Haiduc
Local structure and metal-metal interaction in some Cr(III)-dithiophosphonate compounds
Modern Phys. Lett. B, **2002**, *16*, 401-407.
320. J. Zukerman-Schpector and I. Haiduc
Tellurium π -aryl interactions: a new bonding motif for supramolecular self-assembly and crystal engineering
Cryst. Eng. Comm., **2002**, *4*, 178-193.
319. V. Bercean, C. Crainic, I. Haiduc, M. F. Mahon, K. C. Molloy, M. M. Venter and P. J. Wilson
The structural chemistry of organotin derivatives of 5-mercapto-3-phenyl-1,3,4-thiadiazoline-2-thione: supramolecular structures involving intermolecular Sn \cdots S, N-H \cdots S or S \cdots S interactions
J. Chem. Soc., Dalton Trans., **2002**, 1036-1045.
318. J. S. Casas, E. E. Castellano, J. Ellena, I. Haiduc, A. Sánchez, R. F. Semeniuc and J. Sordo
Supramolecular self-assembly in the crystal structures of methylmercury xanthates, MeHgS(S)COR, R = Et, ⁱPr and CH₂Ph
Inorganica Chimica Acta, **2002**, *329*, 71-78.
317. I. Haiduc and L. Y. Goh
Reactions of bis(thiophosphoryl)disulfanes and bis(thiophosphinyl)disulfanes with metal species: an alternative, convenient route to metal complex and organometallic dithiophosphates and dithiophosphinates
Coord. Chem. Rev., **2002**, *224*, 151-170.
- 2001**
316. I. Silaghi-Dumitrescu, G. Crețiu, L. Silaghi-Dumitrescu, I. Haiduc, A. Toscano and R. Cea-Olivares
Crystal, molecular and electronic structure of 9,9'-Bis(trimethylsilyl)fluorene
Rev. Roum. Chim., **2001**, *46*, 289-295.
315. M. Banciu, E. E. Castellano, J. Ellena, I. Haiduc, C. Draghici and A. T. Balaban,
Serendipitous formation of 2,3,7-triphenylcyclopenta[c]pyran from 1,2-diphenylethanedione ("benzil") and cyclopentadiene
New J. Chem., **2001**, *25*, 1472-1474.
314. L. Y. Goh, Z. Weng, W. L. Leong, I. Haiduc, K. M. Lo and R. C.S. Wong
Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphoryl)disulfanes. Syntheses and X-ray crystal structures of CpCr(CO)₂(S₂P(OR)₂), CpCr(S₂P(OR)₂)₂ and Cr(S₂P(OR)₂)₃ (R = ⁱPr)
J. Organomet. Chem., **2001**, *631*, 67-75.
313. I. Haiduc and J. Zukerman-Schpector
Supramolecular self-assembly through secondary bonds in organotellurium chemistry
Phosphorus, Sulfur & Silicon, **2001**, *171*, 171-185.
312. J. Zukerman-Schpector and I. Haiduc
Diorganotellurium(IV) dihalides and secondary bonding; revisiting the coordination polyhedra
Phosphorus, Sulfur & Silicon, **2001**, *171*, 73-112.
311. W. C. Herndon and I. Haiduc
Contrasting modes of bonding for copper(I), silver(I) and gold(I) in dithioimidodiphosphinato metallacycles, Ph₃P M(SPh₂P)₂N (M = Cu, Ag, Au)
J. Mol. Struct., **2001**, *598*, 127-131.

310. A. Deák, L. Radics, A. Kálmán, L. Párkányi and I. Haiduc
Heptacoordinate dimethyltin(IV) cupferronato complexes. X-Ray and solid-state NMR structural analysis. Hydrogen bond supramolecular self-assembly
Eur. J. Inorg. Chem., **2001**, 2849-2856.
309. I. Pavel, F. Cervantes-Lee, K. H. Pannell and I. Haiduc
Supramolecular self-assembly involving cooperative use of dative coordinate, secondary and hydrogen bonding in solid $[\text{Me}_3\text{Sn}(\mu\text{-OH})\text{SnMe}_3(\mu\text{-OH})\text{SnMe}_3]^+\text{Br}^-$
Inorg. Chem. Commun., **2001**, 4, 530-533.
308. J. S. Casas, A. Castineiras, I. Haiduc, A. Sanchez, R. F. Semeniuc and J. Sordo
New organotin xanthates $\text{R}_2\text{Sn}(\text{S}_2\text{COR}')_2$ and $\text{R}_3\text{SnS}_2\text{COR}'$ (R = Me, Ph and R' = Me, CH_2Ph). Molecular structure of bis(O-methyldithiocarbonato)diphenyltin(IV), $\text{Ph}_2\text{Sn}(\text{S}_2\text{COMe})_2$
Syn. React. Inorg. Metal-Org. Chem., **2001**, 31, 725-736.
307. J. Zukerman-Schpector, I. Haiduc, Robinson L. Camillo, J. V. Comasseto, R. L. O. R. Cunha and I. Caracelli
Acetonyldichloro[(Z)-2-chloro-2-phenylvinyl]tellurium(IV), helical chains of metal complexes
Acta Crystallogr., **2001**, C 57, 749-750.
306. A. Deák, A Kálmán, L. Párkányi and I. Haiduc
Hydrogen-bonded hexagonal and pseudo-hexagonal grid motifs in supramolecular cobalt(II) and nickel(II) cupferronato complexes incorporating neutral N-donors with intermolecular NH_2 connectors and solvent molecules
Acta Crystallogr., **2001**, B 57, 303-310.
305. C. A. Tellez, S. E. Hollauer, M. I. Pais da Silva, M. A. Mondragon, I. Haiduc and M. Curtui
Density functional theory study of the Fourier transform infrared and raman spectra of dichloro-bis(2,4-pentanedionate)tin(IV)
Spectrochim. Acta, Part A, **2001**, 57, 1149-1161.
304. I. Haiduc, M. F. Mahon, K. C. Molloy and M. Venter
Synthesis and spectral characterisation of organotin(IV) 1,3,5-triazine-2,4,6-trithiolato complexes, including the crystal structures of 1,3,5-(R_3SnS) $_3\text{C}_3\text{N}_3$ (R = Me, Ph)
J. Organomet. Chem., **2001**, 627, 6-12.
303. I. Haiduc
Thiophosphorus and related ligands in coordination, organometallic and supramolecular chemistry
J. Organomet. Chem., **2001**, 623, 29-42.

2000

- 302a. R. Micu-semeniuc, I. Haiduc, R. Semeniuc and O. Cozar
Spectroscopic studies of some metallic bis-dithiophosphonates, $\text{M}(\text{DTP})_2$, and of some adducts
Studia Univ. Babeş-Bolyai, Chemia, **2000**, 45, 185-197 (Pub. 2002)
302. M. Bolboaca, S. Cinta, M. Venter, A. Deak, I. Haiduc, O. Cozar, T. Iliescu, P. Rosch and W. Kiefer
Vibrational behavior of transition metalcupferronato complexes: Raman studies on cobalt(II) cupferronato derivatives
Spectrosc. Lett., **2000**, 33, 857-865.
301. L. H. Doerrer, J. C. Green, M. L. H. Green, I. Haiduc, C. N. Jardine, S. I. Pascu, L. Silaghi-Dumitrescu and D. J. Watkin
Group 6 transition metal carbonyl complexes with chalcogen-bridged diarsenic(III) ligands
J. Chem. Soc., Dalton Trans., **2000**, 3347-3355.

300. I. Haiduc

Cyclic inorganic oligomers and polymers

in vol. **“Cyclic Polymers”**, Second edition, Edited by J.A. Semlyen

Kluwer Academic Publishers, Dordrecht, 2000, Chapter 14, pp. 601-698.

299. L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, R. Silaghi-Dumitrescu, I. Haiduc, A. J. Blake and D. B. Sowerby

Bromination of $(\text{AsPh}_2)_2\text{O}$; the structure of tribromo-diphenylarsenic(V)

Rev. Soc. Quim. Mexico, **2000**, *44*, 134-138.

298. D. Bîlc, A. Silvestru, C. Silvestru, I. Haiduc and J. E. Drake

New palladium(II) tetraorganodichalcogenoimido diphosphinates. Crystal and molecular structure of $\text{Pd}[(\text{SPMe}_2)_2\text{N}]_2$ and *cis*- $\text{Pd}[(\text{OPPh}_2)(\text{SPMe}_2)_n]_2$

Rev. Soc. Quim. Mexico, **2000**, *44*, 116-121.

297. L. Y. Goh, W. K. Leong, P.-H. Leung, Z. Weng and I. Haiduc

Chemistry of cyclopentadienyl tricarbonylchromium dimer. Cleavage of bis(thiophosphinyl)disulfanes and bis(thiophosphoryl)disulfanes. Synthesis of $\text{CpCr}(\text{CO})_2(\text{S}_2\text{PPh}_2)$ and $\text{CpCr}(\text{S}_2\text{PPh}_2)_2$. X-Ray crystal structure of $\text{CpCr}(\text{S}_2\text{PPh}_2)_2$

J. Organomet. Chem., **2000**, *607*, 64-71.

296. H. W. Roesky and I. Haiduc

Molecular solids: self-assembled host-guest organometallic aggregates

Adv. Mol. Struct. Res., **2000**, *6*, 75-95.

295. A. Silvestru, D. Bîlc, R. Rösler, J. E. Drake and I. Haiduc

First nickel(II) complexes containing tetrahedral NiO_2S_2 cores. The molecular structures of $\text{Ni}[(\text{OPPh}_2)(\text{SPR}_2)\text{N}]_2$ (R = Ph, Me)

Inorg. Chim. Acta, **2000**, *305*, 106-110.

294. R. A. Varga, C. Silvestru and I. Haiduc

Synthesis and spectroscopic characterization of new organolead(IV) complexes containing organophosphorus ligands

Syn. React. Inorg. Met.-org. Chem., 2000, *30*, 485-498.

293. I. Haiduc, J. Zukerman-Schpector, E. Castellano and R. Cea-Olivares

A spirobicyclic complex of Schmidpeter's ligand, bis(tetraphenylimidodiphosphinato)beryllium, $\text{Be}(\text{OPh}_2\text{PNPPh}_2\text{O})_2$, an inorganic analog of beryllium bis(β -diketonates)

Heteroatom. Chem., **2000**, *11*, 244-248.

292. I. Pavel, S. Cîntă, M. Venter, A. Deák, I. Haiduc, P. Rösch, O. Cozar, T. Iliescu and W. Kiefer:

Vibrational behavior of transition metal cupferronato complexes. Raman and SERS studies on nickel(II) cupferronato complexes

Vib. Spectrosc., **2000**, *23*, 71-76.

291. E. V. Garcia-Baez, M. J. Rozales-Hoz, H. Nöth, I. Haiduc and C. Silvestru:

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 $[(\mu_2\text{-H})\text{Ru}_3\{\mu_2\text{-S,S,S,P}'\text{-(SPPH}_2)(\text{PPH}_2)\text{N}\}(\text{CO})_9]$.

Inorg. Chem. Commun., **2000**, *3*, 173-177.

290. I. Székely, C. Silvestru, J. E. Drake, G. Balázs, S. I. Fărcaș and I. Haiduc

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)

Inorg. Chim. Acta, **2000**, *299*, 247-252.

289. A. Deák, M. Venter, A. Kálmán, L. Párkányi, L. Radics and I. Haiduc
Synthesis and structural characterization of tin(IV) *N*-nitroso-*N*-phenylhydroxylaminato complexes: crystal structures of $\text{Sn}(\text{O}_2\text{N}_2\text{Ph})_4$, $\text{Ph}_2\text{Sn}(\text{O}_2\text{N}_2\text{Ph})_2$ and $[\text{Me}_2\text{Sn}(\text{O}_2\text{N}_2\text{Ph})_2]_2$
Eur. J. Inorg. Chem., **2000**, 127-132.

1999

288a. R. F. Semeniuc, R. Micu Semeniuc, I. Haiduc and O. Cozar
Spectroscopic characterization of some chromium O-alkyldithiocarbonates
Studia Univ. Babeş-Bolyai, Chemia, **1999**, *44*, 203-212 (Pub. 2000)

288. S. Cinta, M. Venter and I. Haiduc
FT-Raman investigation of the biological active cupferron and its thallium(I) complex
Spectrosc. Biol. Mol.: New Dir., Eur. Conf., 8th (1999) 559-560; Chem. Abstr.

287. I. Haiduc, A. Fischer and F. T. Edelmann
A quasi-cyclic structure of tetraphenylimidodiphosphinato(triphenylphosphine)-gold(I), $\text{Ph}_3\text{P Au}(\text{SPh}_2\text{PNPPh}_2\text{S})$, involving $\text{Au}\cdots\text{S}$ secondary bonds
Rev. Roum. Chim., **1999**, *44*, 805-809

286. J. S. Casas, E. E. Castellano, J. Ellena, I. Haiduc, A. Sánchez and J. Sordo
The crystal and molecular structure of mercury(II) bis(isopropyl)dithiophosphate, $\text{Hg}[\text{S}_2\text{P}(\text{OPr}^i)_2]_2$, revisited: new comments about its supramolecular self-organization
J. Chem. Crystallogr., **1999**, *29*, 831-836.

285. I. Silaghi-Dumitrescu, A. Kún and I. Haiduc
Stable isomers of sila- and germadodecahedrane. A semiempirical (AM1) investigation of the structure of 4/6 and 4/5/6 ring containing E_{20} (E = Si, Ge) systems
Fullerene Sci. Technol., **1999**, *7*, 841-854.

284. S. Cinta, M. Venter, T. Iliescu, O. Cozar, I. Haiduc and W. Kiefer
SERS application in elucidation of the nature of homologue Cu(I) triazenido complexes
Vibr. Spectrosc., **1999**, *19*, 223-226.

283. A. Deák, I. Haiduc, L. Párkányi, M. Venter and A. Kálmán
Main group metal directed self-assembly in a tetrameric trimethyltin(IV) *N*-nitroso-*N*-phenylhydroxylaminato complex containing an unprecedented 20-membered inorganic (carbon-free) metallamacrocycle
Eur. J. Inorg. Chem., **1999**, 1593-1596.

282. J. Novosad, M. Necas, J. Marek, P. Veltsistas, C. Papadimitriou, I. Haiduc, M. Watanabe and J. D. Woollins
Displacement of triphenylphosphine from $\text{Cu}(\text{PPh}_3)_2\text{NO}_3$ and $\text{Co}(\text{PPh}_3)_2\text{Cl}_2$ by a diselenoimido-diphosphinato ligand. X-ray crystal structure of $(\text{PPh}_3)\text{Cu}[\text{Ph}_2\text{P}(\text{Se})\text{NP}(\text{Se})\text{Ph}_2]$ and $\text{Co}[\text{Ph}_2\text{P}(\text{Se})\text{NP}(\text{Se})\text{Ph}_2]_2$ containing the novel $\text{CuSe}_2\text{P}_2\text{N}$ and $\text{CoSe}_2\text{P}_2\text{N}$ inorganic metallocycles.
Inorg. Chim. Acta, **1999**, *290*, 256-260.

281. I. Haiduc, L. David, O. Cozar, R. Micu-Semeniuc, G. Mezei and M. Armenean
Spectroscopic and magnetic studies of some copper(II) and chromium(III) complexes with dithiophosphonates as ligands
J. Mol. Struct., **1999**, *482/483*, 153-157.

280. H. W. Roesky and I. Haiduc
Fluorine as a structure-directing element in organometallic fluorides: discrete molecules, supramolecular self-assembly and host-guest complexation
J. Chem. Soc., Dalton Trans., **1999**, 2249-2264 (Dalton Perspectives)

279. M. Rusu, A. R. Tomsa, D. Rusu and I. Haiduc
New organotin and organosilicon derivatives of P/As/Sb/Bi polyoxotungstates
Synth. React. Inorg. Met.-Org. Chem., **1999**, *29*, 951-965.
278. L. Párkányi, A. Kálmán, A. Deák, M. Venter and I. Haiduc
A new inorganic (carbon-free) chelate ring: SnO_2N_2 . Eight-coordinated tin(IV) in $\text{Sn}(\text{O}_2\text{N}_2\text{Ph})_4$ and a self-assembled 20-membered macrocycle in $[\text{Me}_3\text{Sn}(\text{O}_2\text{N}_2\text{Ph})_4]$.
Inorg. Chem. Commun., **1999**, *2*, 265-268.
277. G. Balázs, J. E. Drake, C. Silvestru and I. Haiduc
New versatile phosphorus-containing ligands - asymmetric $(\text{XPR}_2)(\text{YPR}'_2)\text{NH}$ (X, Y = O, S; R, R' = Ph, OEt) and their potassium salts: the crystal and molecular structures of $(\text{SPPH}_2)[\text{OP}(\text{OEt})_2]\text{NH}$, $\text{K}[(\text{SPPH}_2)\{\text{OP}(\text{OEt})_2\}]\text{NH}\cdot\text{H}_2\text{O}$ and $(\text{OPPh}_2)[\text{OP}(\text{OEt})_2]\text{NH}\cdot 1/2\text{HCl}\cdot 1/4\text{H}_2\text{O}$
Inorg. Chim. Acta, **1999**, *287*, 61-71.
276. I. Silaghi-Dumitrescu and I. Haiduc
Possible C_{20} isomers containing 4/6 rings. An AM1 investigation of the stability of three 4/6 cages and of their hydrogenated analogues
Fullerene Science and Technol., **1999**, *7*, 17-24.
275. L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu, I. Haiduc, R.-A. Toscano, V. Garcia-Montalvo and R. Cea-Olivares
Is the trigonal prismatic distortion the answer for the geometry of In^{III} four members dithiochelatate compounds? The crystal and molecular structure of $\text{In}(\text{S}_2\text{AsR}_2)_3$ (R = Me, Ph)
Z. Anorg. Allg. Chem., **1999**, *625*, 347-351.

1998

274. C. A. Tellez, S. De La Riva, E. Hollauer, I. Haiduc and C. Silvestru
Vibrational spectra of dimethyldithiophosphinate anion, $(\text{CH}_3)_2\text{PS}_2^-$
Spectrosc. Lett., **1998**, *31*, 1469-1483.
273. R. Rösler, M. Stanciu, J. Yang, J. E. Drake, C. Silvestru and I. Haiduc
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
Phosphorus, Sulfur and Silicon, **1998**, *132*, 231-250.
272. I. Silaghi-Dumitrescu, F. Lara-Ochoa and I. Haiduc
"Edge" or "vertex" inversion at phosphorus in the *cis-trans* isomerization of diazadiphosphetidines? Model MNDO and *ab initio* molecular orbital calculations
Main Group Chem., **1998**, *2*, 309-314.
271. S. Pascu, L. Silaghi-Dumitrescu, A. J. Blake, I. Haiduc and D. B. Sowerby
Coordination and self-assembly in the crystal structure of $\text{K}(\text{AsMe}_2\text{S}_2)\cdot 2\text{H}_2\text{O}$
Polyhedron, **1998**, *17*, 4115-4119.
270. A. Deák, L. Párkányi, A. Kálmán, M. Venter and I. Haiduc
Dimethylbis(N-nitroso-N-phenylhydroxylaminato-O,O')cobalt(II)
Acta Crystallogr. **1998** (8) CIF Acces Paper IUC 9800036 [electronic publication, available at <http://www.iucr.org/journals/acta/tocs/actac/actac.htm> or by e-mail at getcif@iuc.org]

269. I. Haiduc and L. Silaghi-Dumitrescu
Investigations in organoarsenic chemistry
in vol. **Arsenic and Old Mustard: Chemical Problems in the Destruction of Old Arsenical and Mustard Munitions**, Edited by J.F. Bunnett and M. Mikolajczyk, NATO ASI Series I. Disarmament Technologies, Vol. 19, Kluwer Academic Publishers, Dordrecht, Boston, London, 1998, pag. 149-150.
268. S. Cinta, M. Venter, C. Fickert, I. Haiduc, P. Scholz and W. Kiefer
FT-Raman studies on new triphenylphosphin-copper(I) triazenido complexes
J. Mol. Struct., **1998**, *446*, 209-214.
267. F. T. Edelman, I. Haiduc, H.-G. Schmidt, M. Noltemeyer and C. Silvestru
Supramolecular self-assembly in triphenyllead(IV) dimethyldithiophosphinate, ${}^1_x[\text{Ph}_3\text{PbS}_2\text{PMe}_2]$, a chain polymer built through intermolecular $\text{Pb}\cdots\text{S}$ secondary bonds
Polyhedron, **1998**, *17*, 2043-2047.
266. M. Venter, A. Deák and I. Haiduc
Synthesis and characterization of 4,4'-di(aryltriazenido)diphenylmethanes as new bis-triazenido proligands. Copper(II) complexes
Syn. React. Inorg. Metal-org. Chem., **1998**, *28*, 985-996.
265. R. Rösler, J. E. Drake, C. Silvestru, J. Yang and I. Haiduc
The first crystal structure of mixed chalcogen derivatives $\text{SnR}_2[(\text{OPPh}_2)(\text{SPPH}_2)\text{N}]_2$, R = Me or Ph
J. Chem. Soc., Dalton Trans., **1999**, 391
264. S. Pascu, L. Silaghi-Dumitrescu, A. J. Blake, W.-S. Li, I. Haiduc and D. B. Sowerby
trans-Dichlorotris(cyclo-hexyl)arsenic(V)
Acta Crystallogr., **1998**, *C54*, 219-221.
263. J. E. Drake, A. Silvestru, J. Yang and I. Haiduc
Triphenyltellurium(IV) dichalcogenoimidodiphosphinates containing novel six-membered TeXYP_2N chelate rings. X-Ray structures of $\text{Ph}_3\text{Te}[(\text{SPPH}_2)(\text{OPPh}_2)\text{N}]$ and $\text{Ph}_3\text{Te}[(\text{OPPh}_2)_2\text{N}]$
Inorg. Chim. Acta, **1998**, *271*, 75-82.
262. C. Silvestru, R. Rösler, J. E. Drake, J. Yang, G. Espinosa-Perez and I. Haiduc
Bis(thiophosphinoyl)amines and their neutral cobalt(II) complexes, containing stable tetrahedral CoS_4 cores. Crystal structures of $\text{NH}(\text{SPMe}_2)(\text{SPPH}_2)$ and $[\text{Co}\{[(\text{SPMe}_2)(\text{SPPH}_2)\text{N}]\}_2]$.
J. Chem. Soc. Dalton Trans., **1998**, 73-78.
261. F. Cervantes-Lee, H. K. Sharma, I. Haiduc and K. Pannell
A unique self-assembled tricyclic stannasiloxane containing a planar Sn_3SiO_5 fused 6.4.4 tricyclic ring system.
J. Chem. Soc. Dalton Trans., **1998**, 1-2.

1997

260. L. Silaghi-Dumitrescu, R. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu and I. Haiduc
Theoretical study of di- and tetrahalogeno derivatives of tetramethyldiarsine oxide. A PM3 molecular orbital calculation of the heats of formation
Studia Univ. Babeş-Bolyai, Chemia, **1997**, *42*, 69
259. I. Gergen, I. Silaghi-Dumitrescu and I. Haiduc
An Extended Huckel Molecular Orbital study of the structure of MoO_2^{n+} ($n = 1, 2$) group
Studia Univ. Babeş-Bolyai, Chemia, **1997**, *42*, 161-165.
258. I. Silaghi-Dumitrescu, A. Horea, S. Pascu, L. Silaghi-Dumitrescu and I. Haiduc
Comparative PM-3 MO study of the E_2O_2 and E_2N_2 ($\text{E} = \text{P}, \text{As}$) four-membered ring systems
Phosphorus, Sulfur and Silicon, **1997**, *124-125*, 441-444.

257. C. Silvestru, J. E. Drake, R. Rösler, J. Yang, A. Silvestru and I. Haiduc
Inorganic chelate (carbon-free) rings in monomeric and dimeric $R_2M\{(XPR')_2(YPR''_2)N\}_y]_n$.
Phosphorus, Sulfur and Silicon, **1997**, 124-125, 63-72.
256. L. Silaghi-Dumitrescu, S. Pascu, I. Silaghi-Dumitrescu and I. Haiduc
Theoretical study of tetramethyldiarsane-chalcogen derivatives. Heats of formation and molecular orbital calculations
Rev. Roum. Chim., **1997**, 42,747-752.
255. L. Silaghi-Dumitrescu, S. Pascu, A. J. Blake, I. Haiduc and D. B. Sowerby
The first oxygen-bridged diorganoarsenic(V) compound: the crystal structure of $AsMe_2(S)OAs(S)Me_2$
J. Organomet. Chem., **1997**, 549, 187-192.
254. L. Silaghi-Dumitrescu, I. Haiduc, R. Cea-Olivares, I. Silaghi-Dumitrescu, J. Escudié and C. Couret
On the structure of bis(9-fluorenyl)dimethylsilane: a sterically crowded molecule with relatively low barriers of rotations around the Si-C(flourenyl) bonds. X-Ray diffraction analysis and AM1 molecular orbital calculations
J. Organomet. Chem., **1997**, 545/546, 1-8.
253. I. Haiduc
Metals in medicine: past, present, future
in vol. "**Metal Elements in Environment, Chemistry and Biology**", Edited by Z. Garban and D. Dragan, Proceedings of the 2nd International Symposium on Metal Elements in Environment, Medicine and Biology, Timisoara, October 27-29, 1996, Publishing House "Eurobit" Timisoara, 1997, p. 35-42.
252. M. Venter, I. Haiduc, L. David and O. Cozar
IR and ESR studies on new bis-triazenido cobalt(II) and copper(II) complexes
J. Mol. Struct., **1997**, 408/409, 483-486.
251. R. Cea-Olivares, K. H. Ebert, L. Silaghi-Dumitrescu and I. Haiduc
Bismuth(III) dimethyldithioarsinate, $Bi(S_2AsMe_2)_3$: A new dimer formed through Bi-S secondary bonding
Heteroatom Chem., **1997**, 8, 317-321.
250. C. Silvestru, A. Silvestru, I. Haiduc, D. B. Sowerby, K. H. Ebert and H. J. Breunig
Triorganoantimony(V) diorganophosphinates. Crystal and molecular structure of (diphenylphosphinato) (hydroxo)trimethylantimony(V) exhibiting a polymeric chain. Supramolecular self-assembly through hydrogen bonds
Polyhedron, **1997**, 16, 2643-2649.
249. I. Silaghi-Dumitrescu, F. Lara-Ochoa and I. Haiduc
On the formation of cyclodisilazanes via the coordination of bis(dialkylaminosilanes) to halogenosilanes. An ab initio and AM1 molecular orbital study of the 4644 $R_2Si(NR')_2 \cdot SiX_4$ ring systems
J. Mol. Struct. (TEOCHEM), **1997**, 397, 213-222.
248. A. Silvestru, J. E. Drake, C. Silvestru, J. Yang, I. Haiduc and F. Caruso
Metal-oxygen vs. metal-sulfur bonding of the ambident monothio phosphinato ligand in some triphenylmetal(IV) derivatives, $Ph_3M[OSPR_2]$ (M = Ge, Sn, Pb). Crystal structures of $Ph_3Ge[O(S)PPh_2]$ and $[Ph_2Sn\{O(S)PPh_2\}(\mu-OH)]_2$.
Polyhedron, **1997**, 16, 949-961.
247. J. S. Casas, A. Castiñeiras, I. Haiduc, A. Sánchez, J. Sordo and E. Vázquez-López
Supramolecular self-organization in methyl(diphenylphosphinothioato)mercury(II), $[MeHg\{S(O)PPh_2\}]_n$, a ladder polymer containing $Hg_2O_2P_2S_2$ eight-membered rings interconnected through $Hg \cdots O$ secondary bonds
Polyhedron, **1997**, 16, 781-787

246. I. Haiduc

Supramolecular associations, secondary bonds, quasi-cyclic structures and heterogeometrism in metal derivatives of phosphorus- and arsenic-based thioacids and oxo analogues
Coord. Chem. Revs., **1997**, *158*, 325-358.

1996

245. L. Silaghi-Dumitrescu, I. Haiduc, M.N. Gibbons and D.B. Sowerby

A new polymorphic form of diphenylarsinic acid
Studia Univ. Babeş-Bolyai, Chemia, **1996**, *41*, 43-49.

244. F. Lara-Ochoa, I. Silaghi-Dumitrescu and I. Haiduc

Coordinative dimerization of aminosilanes. Model MNDO and ab initio molecular orbital calculations.
Main Group Chem., **1996**, *1*, 387-398

243. I. Silaghi-Dumitrescu, F. Lara-Ochoa and I. Haiduc

$A_{12}B_{12}$ (A = B, Al; B = N,P) 4/6 fullerene-like cages and their hydrogenated forms stabilized by exohedral bonds. An AM1 molecular orbital study
J. Mol. Struct. (THEOCHEM), **1996**, *370*, 17-23.

242. I. Silaghi-Dumitrescu, F. Lara-Ochoa, P. Bishof and I. Haiduc,

More about boron-nitrogen $B_{12+3n}N_{12+3n}$ fullerene-like cages. An ab initio and AM1 investigation of some 4/6 isomers
J. Mol. Struct. (THEOCHEM), **1996**, *367*, 47-54

241. I. Haiduc and R.B. King

Large Inorganic Ring Molecules
in vol. "**Large Ring Molecules**", Edited by J. Semlyen, John Wiley & Sons, Chichester, New York, 1996, pag. 525-598.

240. M. N. Gibbons, C. Silvestru, I. Haiduc and D. B. Sowerby

Reduction of antimony(V) by dithiophosphinates and the crystal structure of dimeric diphenylantimony(III) dimethyldithiophosphinate, $[Ph_2SbS_2PMe_2]_2$
Polyhedron, **1996**, *15*, 4573-4578

239. R. Gavino-Ramirez, R. A. Toscano, C. Silvestru and I. Haiduc

Studies on inorganic tin diphenyldithiophosphinates. Crystal and molecular structure of cis-dichlorobis(diphenyldithiophosphinato)tin(IV)
Polyhedron, **1996**, *15*, 3857-3867.

238. L. Silaghi-Dumitrescu, M. N. Gibbons, I. Silaghi-Dumitrescu, J. Zukerman-Schpector, I. Haiduc and D. B. Sowerby

Oxidation of $(AsPh_2)_2E$ (E = O or S); supramolecular hydrogen-bonded self-assembly of an unusual tetranuclear adduct and X-ray crystal structure of $[AsPh_2(O)(OH).AsPh_2(S)OH]_2$
J. Organomet. Chem., **1996**, *517*, 101-106.

237. C. Silvestru, R. Rösler, I. Haiduc, R. A. Toscano and D.B. Sowerby

Dichlorodiphenylantimony(V) derivatives of oxo- and thioimidodiphosphinic acids, containing novel inorganic SbO_2P_2N and $SbOSP_2N$ rings: crystal and molecular structures of $Ph_2SbCl_2[(OPPh_2)(XPPH_2)N]$ (X = O, S)
J. Organomet. Chem., **1996**, *515*, 131-138.

236. C. Silvestru and I. Haiduc
Organoantimony(III) compounds. A new class of organometallic antitumor agents
in vol. **Main Group Elements and their Compounds**, V.G. Kumar Das, Editor, Narosa Publishing House,
New Delhi, India, 1996, p. 453-462.
235. I. Haiduc and C. Silvestru
Supramolecular associations in organotin, organoantimony and other main group organometallic compounds
in vol. **Main Group Elements and their Compounds**, V. G. Kumar Das, Editor, Narosa Publishing House,
New Delhi, India, 1996, p. 355-369.
234. M. Nunn, M. J. Begley, D.B. Sowerby and I. Haiduc
Complexes of organoantimony(III) and (V) halides with nitrogen donors
Polyhedron, **1996**, *15*, 3167-3174.
233. A. T. Balaban, I. Haiduc, H. Höpfl, N. Farfan and R. Santillan
Spiroborates revisited. X-ray crystal and molecular structures of boron chelate compounds with tropolone
and 1,3-diketones
Main Group Metal Chem., **1996**, *19*, 385-395.
232. C. Socaciu, I. Pasca, C. Silvestru and I. Haiduc
Genotoxicity of some metal-based antineoplastics, evaluated by SOS Chromotest and cytogenetic analysis
Metal-Based Drugs, **1996**, *3*, 91-99.
231. I. Haiduc and D. B. Sowerby
Stereochemical aspects of phosphor-1,1-dithiolato metal complexes: coordination patterns, molecular
structures and supramolecular associations in dithiophosphinates and related compounds (Polyhedron Report
Number 60).
Polyhedron, **1996**, *15*, 2469-2521.
230. C. Silvestru and I. Haiduc
Structural patterns in inorganic and organoantimony derivatives of oxo- and thiodiorgano-phosphorus
ligands
Coord. Chem. Rev., **1996**, *147*, 117-146.
229. R. Rösler, J. E. Drake, C. Silvestru, J. Yang and I. Haiduc
The first X-ray structures of mixed chalcogen derivatives $\text{SnR}_2[(\text{OPPh}_2)(\text{SPPPh}_2)_2\text{N}]_2$ (R = Me, Ph)
J. Chem. Soc., Dalton Trans., **1996**, 391-399.
228. R. Rösler, C. Silvestru, G. Espinosa-Perez, I. Haiduc and R. Cea-Olivares
Tetrahedral vs. square planar NiS_4 core in solid-state nickel(II) bis(dithioimidodiphosphinato) chelates.
Crystal structures of $\text{Ni}[(\text{SPPPh}_2)(\text{SPR}_2)_2\text{N}]_2$ (R = Me, Ph)
Inorg. Chim. Acta, **1996**, *241*, 47-54.
227. C. C. Landry, A. Hynes, A. R. Barron, I. Haiduc and C. Silvestru
Gallium and indium compounds of sulphur donor ligands: pyridine-2-thiolates and diphenylthiophosphinates
Polyhedron, **1996**, *15*, 391-402.

1995

226. M. Curtui, I. Haiduc and C. Pop
Solvent extraction of dioxouranium(VI) with diisopropyldithiophosphoric acid and triphenylphosphine
Studia Univ. Babeş-Bolyai, Chemia, **1995**, *40*, 183-188 [Pub. 1997].
225. I. Silaghi-Dumitrescu and I. Haiduc
On the geometries and electronic structures of XH_2SiNH_2 (X = F, Cl, Br) silanes. MNDO Molecular orbital
calculations
Studia Univ. Babeş-Bolyai, Chemia, **1995**, *40*, 91-98 [Pub. 1997].

224. R. Landtiser, J. T. Mague, M. J. Fink, C. Silvestru and I. Haiduc
Cleavage of bis(thiophosphinyl)disulfanes, $R_2P(S)-S-S-P(S)R_2$ (R = Et, Ph), by a low-valent palladium dimer
Inorg. Chem., **1995**, *34*, 6141-6144.
223. C. Silvestru, I. Haiduc, E. R.T. Tiekink, D. de Vos, M. Biesemans, R. Willem and M. Gielen
Synthesis, structural characterization and in vitro antitumour properties of triorganoantimony(V) disalicylates: Crystal and molecular structures of $[5-Y-2-(HO)-C_6H_3COO]_2SbMe_3$ (Y = H, Me, MeO)
Appl. Organomet. Chem., **1995**, *9*, 597-607.
222. R. Cea-Olivares, M. R. Estrada, G. Espinosa-Perez, I. Haiduc, P. G. y Garcia, M. Lopez-Cardoso, M. Lopez-Vaca and A.-M. Cotero-Villegas
1-Oxa-4,6-dithia-5-arsocane and 1,3,6-trithia-2-arsocane dithiocarbamates. Competition between transannular and exocyclic secondary bonding to arsenic
Main Group Chem., **1995**, *1*, 159-164.
221. I. Haiduc, D. B. Sowerby and S.-F. Lu
Stereochemical aspects of phosphor-1,1-dithiolato metal complexes (dithiophosphates, dithiophosphinates): coordination patterns, molecular structures and supramolecular associations. I (Polyhedron Report Number 57)
Polyhedron, **1995**, *14*, 3389-3472.
220. J. J. Zukerman-Schpector, I. Haiduc, C. Silvestru and R. Cea-Olivares
Crystal structures of antimony and indium phosphinodithioates, $M(S_2PR_2)_3$ (M = Sb, R = Et; M = In, R = Me and Ph). Is the lone pair responsible for the structural differences ?
Polyhedron, **1995**, *14*, 3087-3094.
219. C. Silvestru, R. A. Toscano, J. Cardenas, R. Cea-Olivares, A. Silvestru and I. Haiduc
Synthesis and characterization of triphenylgermanium(IV) diorganophosphinodithioates: Crystal and molecular structures of $Ph_3GeS(S)PR_2$ (R = Me, Ph).
Polyhedron, **1995**, *14*, 2231-2237.
218. A. Silvestru, I. Haiduc, R. A. Toscano, and H. J. Breunig
Triphenyltelluronium derivatives of dithiophosphorus ligands: Crystal and molecular structure of $[Ph_3Te][S_2PPh_2]$ and $[Ph_3Te][(SPh_2)_2N]$, displaying weak cation-anion $Te^{\cdots}S$ secondary interactions.
Polyhedron, **1995**, *14*, 2047-2053.
217. I. Haiduc, R. Cea-Olivares, S. Hernandez-Ortega and C. Silvestru
Unexpected linear P-N-P fragment in the anion $[SPh_2PNPPh_2S]^-$: Crystal structure of bis(triphenylphosphine)iminium dithiotetraphenylimidodiphosphinate, $[Ph_3PNPPh_3]^+ [SPh_2PNPPh_2S]^-$
Polyhedron, **1995**, *14*, 2041-2046.
216. C. Silvestru, R. Rösler, I. Haiduc, R. Cea-Olivares and G. Espinosa-Perez
Crystal and molecular structure of tetramethyldithioimidodiphosphinic acid, $(SPMe_2)_2NH$, and its cobalt(II) complex, $Co[(SPMe_2)_2N]_2$, containing a tetrahedral CoS_4 core
Inorg. Chem., **1995**, *34*, 3352-3354.
215. R. Cea-Olivares, O. Jimenez-Sandoval, S. Hernandez-Ortega, M. Sanchez, R. A. Toscano and I. Haiduc
Electron distribution in 1-organo-1H-tetrazole-5-thiols. Crystal and molecular structure of 1-methyl-1H-tetrazole-5-thiol and its potassium(18-crown-6) salt
Heteroatom Chemistry, **1995**, *16*, 89-97.
214. L. Silaghi-Dumitrescu, I. Haiduc, J. Escudié, C. Couret and J. Satgé
Investigations in the field of Group 14 difluorenyl compounds
Synth. React. Inorg. Met.-org. Chem., **1995**, *25*, 575-590.

213. C. Silvestru, I. Haiduc, R. Cea-Olivares and S. Hernandez-Ortega
A new eight-membered $Pb_2S_4P_2$ inorganic ring. Crystal and molecular structure of dimeric $[Pb(S_2PMe_2)_2]_2$, associated into polymeric chains through intermolecular $Pb \cdots S$ interactions
Inorg. Chim. Acta, **1995**, *233*, 151-154.
212. A. Silvestru, I. Haiduc, H. J. Breunig and K. H. Ebert
Diphenyltellurium(IV) bis(diorganophosphinodithioates). X-ray crystal structure of $Ph_2Te(S_2PPh_2)_2 \cdot 0.5CHCl_3$ and a multinuclear NMR study of the decomposition process of $Ph_2Te(S_2PR_2)_2$ to Ph_2Te^{II} and $[R_2P(S)S]_2$.
Polyhedron, **1995**, *14*, 1175-1183.
211. K. C. Molloy, M. Mahon, I. Haiduc and C. Silvestru
Solid state supramolecular structure of (tetraphenyldithioimidodiphosphinato)-trimethyltin(IV).benzene, $[\text{Me}_3\text{Sn}(\text{SPPPh}_2)_2\text{N} \cdot \text{C}_6\text{H}_6]_x$, a unique polymer containing a bridging $\text{SPR}_2\text{NPR}_2\text{S}$ ligand
Polyhedron, **1995**, *14*, 1169-1174.
210. I. Haiduc, R. Cea-Olivares, R. A. Toscano and C. Silvestru
X-ray crystal structure of (tetraphenyldithioimidodiphosphinato)(triphenylphosphine) copper(I), $(Ph_3P)Cu(SPPPh_2)_2N$, a monocyclic inorganic (carbon-free) chelate ring compound
Polyhedron, **1995**, *14*, 1067-1071.
209. J. S. Casas, A. Castineiras, I. Haiduc, A. Sanchez, J. Sordo, and Ezequiel M. Vázquez-López
Crystal and molecular structure of diphenylthallium(III) tetraphenyldithioimidodiphosphinate, $[TlPh_2\{SPPPh_2\}_2N]$, containing a new inorganic (carbon-free) TlS_2P_2N metallocycle.
Polyhedron, **1995**, *14*, 805-809.
208. R. Cea-Olivares, V. Lomeli, S. Hernandez-Ortega and I. Haiduc
Crystal and molecular structures of spiro-bis(trithiastannocane), $Sn(SCH_2CH_2SCH_2CH_2S)_2$, and spiro-bis(oxadithiastannocane), $Sn(SCH_2CH_2OCH_2CH_2S)_2$. Distortion of the SnS_4 tetrahedral coordination produced by transannular $Sn \cdots X$ ($X = S, O$) interactions
Polyhedron, **1995**, *14*, 747-755.
- 1994**
207. I. Silaghi-Dumitrescu and I. Haiduc
On the geometry of 1,3-diazadiphosphetidines. The cis-trans isomerism.
Phosphorus, Sulfur and Silicon, **1994**, *91*, 21-36.
206. I. Silaghi-Dumitrescu, L. Serban, L. Silaghi-Dumitrescu and I. Haiduc
Chelating versus bridging coordination of dithiophosphates in copper complexes. An EHMO study.
Rev. Roum. Chim., **1994**, *39*, 1397-1405.
205. O. Jimenez-Sandoval, R. Cea-Olivares, I. Haiduc, C. Silvestru and G. Espinoza-Perez
New organotin(IV) derivatives of 1-phenyl-1H-tetrazole-5-thiol, a five-membered nitrogen heterocycle
Phosphorus, Sulfur and Silicon, **1994**, *93/94*, 387-388.
204. I. Haiduc
Formation of inorganic quasi-cyclic structures through secondary interactions. A few cases of heterogeometrism
Phosphorus, Sulfur and Silicon, **1994**, *93/94*, 345-348.
203. C. Silvestru, A. Silvestru, I. Haiduc, R. G. Ramirez and R. Cea-Olivares
Phenyllead(IV) diorganophosphinodithioates $Ph_nPb(S_2PR_2)_{4-n}$. Synthesis, spectroscopic characterization and NMR study of the redistribution/decomposition of diphenyllead(IV) derivatives.
Heteroatom Chemistry, **1994**, *15*, 327-336.

202. C. Silvestru, I. Haiduc, R. Cea-Olivares and A. Zimbron
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 spiro-bicyclic compound
Polyhedron, **1994**, *13*, 3159-3165.
201. A. Silvestru, I. Haiduc, K. H. Ebert, H. J. Breunig, and D. B. Sowerby
New aryltellurium(II)diorganophosphinodithioates. Crystal structure of red (294 K) and yellow (173 K) $x^1[\text{PhTeS}(\text{S})\text{PPh}_2]$, a supramolecular polymer displaying an unusual coordination pattern of the phosphinodithioato ligand
J. Organomet. Chem., **1994**, *284*, 253-259.
200. J. S. Casas, A. Castiñeiras, I. Haiduc, A. Sánchez, J. Sordo and E. M. Vázquez-López
Crystal and molecular structure of spirobicyclic bis(tetraphenyldithioimidodiphosphinato)-lead(II), $[\text{Pb}\{(\text{SPPH}_2)_2\text{N}\}_2]$, containing a new inorganic (carbon-free) $\text{PbS}_2\text{P}_2\text{N}$ chelate ring and $\text{Pb}(\eta^6\text{-C}_6\text{H}_5)$ interactions
Polyhedron, **1994**, *13*, 2873-2879.
199. C. Socaciu, I. Paşca, C. Silvestru, A. Bara and I. Haiduc
Antitumor organometallics. IV. The mutagenic potential of some diphenylantimony(III) dithiophosphorus derivatives
Metal-Based Drugs, **1994**, *1*, 291-297.
198. K. H. Ebert, H. J. Breunig, C. Silvestru and I. Haiduc
Crystal and molecular structure of (dimethyldithiophosphinato)dimethylantimony(III), $x^1[\text{Me}_2\text{SbS}_2\text{PMe}_2]$, a chain polymer built through secondary, intermolecular $\text{Sb}^{\text{III}}\text{-S}$ interactions
Polyhedron, **1994**, *13*, 2531-2535.
197. R. Cea-Olivares, J.-G. Alvarado, G. Espinosa-Perez, C. Silvestru and I. Haiduc
Synthesis and characterization of phenoxarsin-10-yl diorganodithiophosphinates. A folded phenoxarsine system in the first dimeric organoarsenic(III) 1,1-dithiolate associated through $\text{As}^{\text{III}}\text{-S}$ secondary bonding
J. Chem. Soc. Dalton Trans., **1994**, 2191-2195
196. C. Silvestru, D. B. Sowerby, I. Haiduc, K. H. Ebert and H. J. Breunig
Organoantimony(V) and -antimony(III) derivatives of diorganodithiophosphinato ligands. Synthesis, spectroscopic characterization and X-ray molecular structure of $\text{Me}_3\text{Sb}(\text{S}_2\text{PPh}_2)_2$
Main Group Metal Chem., **1994**, *17*, 505-518.
195. J. S. Casas, A. Castiñeiras, I. Haiduc, A. Sánchez, J. Sordo and E. M. Vázquez-López
Supramolecular self-organization in catena-poly[(dimethylphosphinothioato)thallium(III)], $[\text{TlMe}_2\{\text{S}(\text{O})\text{PPh}_2\}]_n$, a polymer with secondary interactions between the chain segments
Polyhedron, **1994**, *13*, 1805-1809.
194. I. Haiduc, C. Silvestru, F. Caruso, M. Rossi and M. Gielen
Organotin(IV) diethylmonothiophosphinates. The structure of molecular, monomeric $\text{Me}_2\text{Sn}(\text{OSPEt}_2)_2$ versus polymeric $\text{Me}_2\text{Sn}(\text{OSPPH}_2)_2$
Rev. Roum. Chim., **1994**, *39*, 53-64.
193. B. K. Keppler, C. Silvestru and I. Haiduc
Antitumor organometallics. III. In vivo activity of diphenylantimony(III) and diorganotin(IV) dithiophosphorus derivatives against P388 leukemia
Metal-Based Drugs, **1994**, *1*, 75-80.

192. K. H. Ebert, R. E. Schulz, H. J. Breunig, C. Silvestru and I. Haiduc
Syntheses and structures of dimesitylbismuth(III) bromide, Mes_2BiBr , and bis(diphenyl-
dithiophosphinato)mesitylbismuth(III), $\text{MesBi}(\text{S}_2\text{PPh}_2)_2$.
J. Organomet. Chem., **1994**, 470, 93-98.

191. K. H. Ebert, H. J. Breunig, C. Silvestru, I. Stefan and I. Haiduc
Crystal and molecular structure of bis(diphenyldithiophosphinato)lead(II) $^1[\text{Pb}(\text{S}_2\text{PPh}_2)_2]$, a new type of
polymer associated through Pb...S secondary interactions
Inorg. Chem., **1994**, 33, 1695-1699.

190. A. Silvestru, I. Haiduc, K. H. Ebert and H. J. Breunig
Novel coordination pattern of dithiophosphorus ligands. Crystal and molecular structure of
(diphenylphosphinodithioato)phenyltellurium(II), $\text{PhTeS}_2\text{PPh}_2$. Supramolecular association through
monodentate biconnective dithiophosphorus ligands .
Inorg. Chem., **1994**, 33, 1253-54.

189. M. Rieckhoff, M. Noltemeyer, F. T. Edelmann, I. Haiduc and I. Silaghi-Dumitrescu
Ein alter Ligand in neuer Umgebung: Dreifach verbrückendes O,O'-Dimethyldithiophosphat im
Organosamarium-Komplex $[(\text{C}_5\text{Me}_5)\text{Sm}\{\text{S}_2\text{P}(\text{OMe})_2\}_2]_2$
J. Organomet. Chem., **1994**, 469, C19-C21.

188. M. Curtui and I. Haiduc
Solvent extraction of thorium(IV) with dialkyldithiophosphoric acid in various organic solvents
J. Radioanal. Nucl. Chem., **1994**, 186, 273-280.

187. D. B. Sowerby, M. J. Begley, L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu and I. Haiduc
Antimony(III) and phenylantimony(III) dimethyldithioarsinates. Synthesis and mass spectral study. Crystal
structure of $\text{Ph}_2\text{SbS}_2\text{AsMe}_2$, the first coordination polymer associated via bridging dimethyldithioarsinate
ligands
J. Organomet. Chem., **1994**, 469, 45-53.

186. F. T. Edelmann, M. Noltemeyer, I. Haiduc, C. Silvestru and R. Cea-Olivares
Bismuth(III) dimethyldithiophosphinate, $\text{Bi}(\text{S}_2\text{PMe}_2)_3$: another dimer formed through secondary bonding.
The stereochemically active lone pair revisited
Polyhedron, **1994**, 13, 547-552.

185. C. Silvestru, I. Haiduc, K. H. Ebert, H. J. Breunig and D. B. Sowerby
Trimethylantimony(V) diorganomonophosphinates. The crystal structure of bis(diphenyl-
monothiophosphinato)trimethylantimony(V), $\text{Me}_3\text{Sb}(\text{OSPPH}_2)_2$, containing a monodentate monothiophosphinato
ligand
J. Organomet. Chem., **1994**, 468, 113-119.

184. I. Haiduc, R. B. King and M. G. Newton
Stereochemical aspects of tellurium complexes with sulfur ligands. Molecular compounds and supramolecular
associations
Chem. Revs., **1994**, 94, 301-326.

183. I. Haiduc
Inorganic (Carbon-Free) Chelate Rings: A Dithioimidodiphosphinato Ligand and Some of its Metal
Complexes
in vol. **Inorganic Experiments**, Edited by J. Derek Woollins, VCH Weinheim, New York, Basel,
Cambridge, Tokyo, 1994, p. 145-149.

1993

182. I. Silaghi-Dumitrescu and I. Haiduc
On the ring angles in the four-membered cyclodiphosphazanes
Studia Univ. Babeş-Bolyai, Chemia, **1993**, *38*, 183-186.
181. R. Rösler, C. Silvestru, I. Haiduc, F. Kayser, M. Gielen and B. Mahieu
Synthesis and characterization of some new organotin(IV) tetraphenyldithiomidodiphosphinates
Main Group Metal Chem., **1993**, *16*, 435-443.
180. C. Silvestru, I. Haiduc, R. Kaller, K. H. Ebert and H. J. Breunig
Synthesis, spectroscopic characterization and molecular structure of dimeric (diethyldithio-phosphinato)di(para-tolyl)antimony(III), $[(p\text{-CH}_3\text{C}_6\text{H}_4)_2\text{SbS}_2\text{P}(\text{C}_2\text{H}_5)_2]_2$, containing a novel monocyclic $\text{P}_2\text{S}_2\text{Sb}_2$ inorganic ring system, formed through $\text{Sb}^{\text{III}}\text{-S}$ semibonding interactions
Polyhedron, **1993**, *12*, 2611-2617.
179. I. Haiduc, R. Micu-Semeniuc and L. Silaghi-Dumitrescu
Transition metal complexes of organothiophosphorus ligands. IX. Adducts of nickel alkoxy- and phenoxyethyl phosphorodithioates with primary and tertiary mono- and diamines
Syn. React. Inorg. Metal-org. Chem., **1993**, *23*, 1629-1643.
178. M.G. Newton, R.B. King, I. Haiduc and A. Silvestru
A unique supramolecular structure of catena-poly[bis(\square -diphenylphosphinodithioato)-ditellurium(I)(*Te-Te*)], $[\text{Te}_2(\text{S}_2\text{PPh}_2)_2]_n$, containing $\text{Te}-\text{Te}^{\text{I}}-\text{Te}-\text{Te}^{\text{I}}$ chains
Inorg. Chem., **1993**, *32*, 3795-3796.
177. M.Gary Newton, I. Haiduc, R.B. King and C. Silvestru
A unique macrocyclic structure of tetrameric trimethyltin(IV) diphenylphosphinate, $[\text{Me}_3\text{SnO}_2\text{PPh}_2]_4$, containing a sixteen-membered $\text{Sn}_4\text{O}_8\text{P}_4$ inorganic ring
J. Chem. Soc. Chem. Commun., **1993**, 1229-1230.
176. I. Silaghi-Dumitrescu, I. Haiduc and D. B. Sowerby
Fully inorganic (carbon-free) fullerenes? The boron-nitrogen case
Inorg. Chem., **1993**, *32*, 3755-3758.
175. C. Silvestru, I. Haiduc, F. Caruso, M. Rossi, B. Mahieu and M. Gielen
Organotin diphenylmonothiophosphinates. Crystal structure of bis(diphenylmonothio-phosphinato)dimethyltin(IV), $\text{Me}_2\text{Sn}(\text{OSPPh}_2)_2$
J. Organomet. Chem., **1993**, *448*, 75-82.
174. M. Curtui and I. Haiduc
Synergic extraction of dioxouranium(VI) with di(2-ethylhexyl)dithiophosphoric acid and triphenylphosphine oxide in benzene
J. Radioanal. Nucl. Chem. Letters, **1993**, 233-243.
173. F. T. Edelmann, M. Riekhoff, I. Haiduc and I. Silaghi-Dumitrescu
ansa-Metallocenderivate des Samariums und Ytterbiums mit "weichen" Donorliganden
J. Organomet. Chem., **1993**, *447*, 203-208.
172. I. Haiduc, C. Silvestru, H. W. Roesky, H.-G. Schmidt and M. Noltemeyer
A new inorganic metallacycle containing tin, sulfur, phosphorus and nitrogen. Crystal and molecular structure of spirobicyclic $\text{Me}_2\text{Sn}(\text{SPPH}_2\text{NPPH}_2\text{S})_2$.
Polyhedron, **1993**, *12*, 69-75.

1992

171. L. Silaghi-Dumitrescu and I. Haiduc
Fragmentation of dihenylantimony(III) diphenyldithioarsinate $\text{Ph}_2\text{SbS}_2\text{AsPh}_2$ under electron impact
Studia Univ. Babeş-Bolyai, Chem., **1992**, 37, 3-6.
170. M. Curtui, I. Haiduc and I. Haiduc
Solvent extraction of thorium(IV) with dialkyldithiophosphoric acids
J. Radioanal. Nucl. Chem., Letters, **1992**, 165, 95-105.
169. C. Silvestru, M. Curtui, I. Haiduc, M. J. Begley and D.B. Sowerby
Phenylantimony(III) diorganophosphorodithioates: the crystal structure of diphenylantimony(III) diisopropylphosphorodithioate, $\text{Ph}_2\text{SbS}_2\text{P}(\text{OPr}^i)_2$; unusual polymerization through semibonding
J. Organomet. Chem., **1992**, 426, 49-58.
168. I. Haiduc
A graph-based classification and enumeration of inorganic homo- and heterocycles
Phosphorus, Sulfur and Silicon, **1992**, 64, 169-178.
167. M. Curtui and I. Haiduc
Solvent extraction of lanthanum(III) and cerium(IV) with dialkyldithiophosphoric acids. Separation from thorium(IV)
J. Radioanal. Nucl. Chem., Letters, **1992**, 164, 91-101.
166. I. Haiduc
Comments on the nomenclature of inorganic ring systems
in vol. **The Chemistry of Inorganic Ring Systems**, Edited by R. Steudel, Elsevier Science Publishers, Amsterdam, 1992, p. 451-477.

1991

165. C. Silvestru, I. Haiduc, B. Mahieu and M. Gielen
Di- and triorganotin(IV) diphenylphosphinates, $\text{R}_{4-n}\text{Sn}(\text{O}_2\text{PPh}_2)_n$. Structural considerations based upon ^{119}mSn Mossbauer spectra.
Main Group Metal Chem., **1991**, 14, 257-262.
164. C. Socaciu, A. Bara, C. Silvestru and I. Haiduc
Antitumor organometallics. II. Inhibitory effects of two diphenylantimony(III) dithiophosphorus derivatives on in vitro and in vivo Ehrlich ascites tumor
In Vivo, **1991**, 5, 425-428.
163. A. Bara, C. Socaciu, C. Silvestru and I. Haiduc
Antitumor organometallics. I. Activity of some diphenyltin(IV) and diphenylantimony(III) derivatives on in vitro and in vivo Ehrlich ascites tumor.
Anticancer Res., **1991**, 11, 1651-1656.
162. I. Haiduc and I. Silaghi-Dumitrescu
The richness of structures available to P_2N_2 inorganic heterocycles. A topological and molecular orbital (EHMO) analysis.
Rev. Roum. Chim., **1991**, 36, 527-544.
Phosphorus, Sulfur & Silicon, **1992**, 65, 53-56 (short version).

1990

161. I. Silaghi-Dumitrescu and I. Haiduc
The electronic structure of $[\text{H}_3\text{SiNSiH}_3]^-$ anion. A simple molecular orbital treatment
Rev. Roum. Chim., **1990**, 35, 80-84.
160. R. Grecu, R. Constantinescu, I. Silaghi-Dumitrescu and I. Haiduc
The infrared spectra of methyl(O-methyl)dithiophosphonic acid. Multiplicity of some bands due to different conformers
J. Mol. Struct., **1990**, 218, 111-116.
159. C. Silvestru, C. Socaciu, A. Bara and I. Haiduc
The first organoantimony(III) compounds possessing antitumor properties: diphenylantimony(III) derivatives of dithiophosphorus ligands
Anticancer Research, **1990**, 10, 803-804.
158. I. Haiduc and C. Silvestru
Metal compounds in cancer chemotherapy
Coord. Chem. Revs., **1990**, 99, 253-296.

1989

157. I. Silaghi-Dumitrescu, R. Grecu, L. Silaghi-Dumitrescu and I. Haiduc
Vibrational spectra and coordination behavior of organodithiophosphorus ligands
Studia Univ. Babeş-Bolyai, Chemia, **1989**, 34, 97-101.
156. M. Curtui and I. Haiduc
Solvent extraction of praseodymium(III) and samarium(III) with di(2-ethylhexyl)dithiophosphoric acid
Studia Univ. Babeş-Bolyai, Chemia, **1989**, 34, 89-96.
155. C. Silvestru, F. Ilieş and I. Haiduc
Organotin diphenylphosphinates, $\text{R}_{4-n}\text{Sn}(\text{O}_2\text{PPh}_2)_n$
Studia Univ. Babeş-Bolyai, Chemia, **1989**, 34, 93-96.
154. I. Haiduc and C. Silvestru
Rhodium, iridium, copper and gold antitumor organometallic compounds (review)
In Vivo, **1989**, 3, 285-293.
153. C. Silvestru and I. Haiduc
Synthesis and characterization of di- and triorganotin(IV) dimethyldithiophosphinates
J. Organomet. Chem., **1989**, 365, 83-90.
152. L. Silaghi-Dumitrescu, I. Silaghi-Dumitrescu and I. Haiduc
The sulfotropic molecular rearrangement of tetraorganodiarisine disulfides
Rev. Roum. Chim., **1989**, 34, 305-315.

1988

151. O. Cozar, R. Semeniuc, V. Znamirovski and I. Haiduc
ESR and IR studies of some oxovanadium dithiophosphonates
Rev. Roum. Phys., **1988**, 33, 1131-1138.

150. M. Curtui and I. Haiduc

Extracția toriului și a pământurilor rare cu acizi dialchiliditiofosforici [Extraction of thorium and rare earths with dialkyldithiophosphoric acids]

Rev. Chim. (Bucuresti), **1988**, 39, 1099-1102.

149. I. Silaghi-Dumitrescu and I. Haiduc

Electronic structure and bonding in diamidoboron cations. A molecular orbital study of $[H_2NBNH_2]^+$

Rev. Roum. Chim., **1988**, 33, 851-856.

148. I. Silaghi-Dumitrescu and I. Haiduc

Linear versus bent bis(diphenylphosphine)iminium cations. A molecular orbital discussion of the bonding in $[H_3PNPH_3]^+$ and related species

Rev. Roum. Chim., **1988**, 33, 133-142.

1987

147. C. Silvestru, F. Ilieș, I. Haiduc, M. Gielen and J. J. Zuckerman

Di- and triorganotin(IV) diphenyldithiophosphinates

J. Organomet. Chem., **1987**, 330, 315-324.

146. C. Silvestru, I. Haiduc, S. Klima, U. Thewalt, M. Gielen and J. J. Zuckerman

Synthesis and characterization of di- and triorganotin(IV) diethyldithiophosphinates. The crystal and molecular structure of bis(diethyldithiophosphinato)dimethyltin(IV), $Me_2Sn(S_2PET_2)_2$

J. Organomet. Chem., **1987**, 327, 181-191.

145. D. B. Sowerby and I. Haiduc

The crystal structure of bismuth diethyldithiophosphate-benzene(1/1), $Bi(S_2PET_2)_3 \cdot C_6H_6$

J. Chem. Soc. Dalton Trans., **1987**, 1257-1259.

144. M. J. Begley, D. B. Sowerby and I. Haiduc

The crystal structures of the diphenyldithiophosphinates of antimony(III) and bismuth(III): $M(S_2PPh_2)_3$ (M = Sb or Bi)

J. Chem. Soc. Dalton Trans., **1987**, 145-150.

1986

143. F. Dogar, L. Silaghi-Dumitrescu, R. Grecu and I. Haiduc

Amine adducts of nickel(II) diphenyldithiophosphate with substituted ethylenediamines

Rev. Roum. Chim., **1986**, 31, 79.

142. M. J. Begley, D.B. Sowerby, D. M. Wesolek, C. Silvestru and I. Haiduc

Diphenylantimony(III) diphenylphosphinate and diphenylmonothiophosphinate: synthesis, spectra and crystal structure

J. Organomet. Chem., **1986**, 316, 281-289

141. I. Silaghi-Dumitrescu and I. Haiduc

The bonding in dialkyldithiophosphinato metal complexes. A molecular orbital study of bis(dimethyldithiophosphinato)nickel(II)

Rev. Roum. Chim., **1986**, 31, 955-962

140. P. Clare, D. B. Sowerby and I. Haiduc

The crystal structure of bis(N-pentafluorophenyl)tetraphenyl-cyclodisilazane-tetrabenzene, $(Ph_2SiNC_6F_5)_2 \cdot 4C_6H_6$

J. Organomet. Chem., **1986**, 310, 161-167.

139. F. Dogar, L. Silaghi-Dumitrescu, R. Grecu and I. Haiduc
Amine adducts of nickel(II) diphenyldithiophosphinate with substituted ethylenediamines
Rev. Roum. Chim., **1986**, *31*, 79-83.
138. L. Silaghi-Dumitrescu, L. A. Avila-Diaz and I. Haiduc
Dimethyl- and diphenyldithioarsinates of some main group metals
Rev. Roum. Chim., **1986**, *31*, 335-340
137. C. Silvestru, L. Silaghi-Dumitrescu, I. Haiduc, M. J. Begley, M. Nunn and D. B. Sowerby
Synthesis of diphenylantimony(III) dialkyldithio- and diaryldithio-phosphinates and -arsinates. Crystal structures of $\text{Ph}_2\text{SbS}_2\text{MPh}_2$ (M = P or As)
J. Chem. Soc. Dalton Trans., **1986**, 1031-1034.
136. I. Haiduc, M. Curtui and I. Haiduc
Solvent extraction of uranium(VI) with di-2-ethylhexyldithiophosphoric acid from aqueous nitrate, chloride, sulfate and phosphate media
J. Radioanal. Nucl. Chem., Articles, **1986**, *99*, 257-263.
135. I. Silaghi-Dumitrescu and I. Haiduc
Why are cyclodisilazane rings more stable than cyclodisiloxanes? A qualitative molecular orbital approach to the bonding in cyclodisilazanes and cyclodisiloxanes
Inorg. Chim. Acta, **1986**, *112*, 159-165.
134. I. Haiduc and I. Silaghi-Dumitrescu
Inorganic (carbon-free) chelate rings
Coord. Chem. Revs., **1986**, *74*, 127-270

1985

133. I. Haiduc, M. Curtui, I. Haiduc and I. Silaghi-Dumitrescu
Solvent extraction of uranium, thorium and rare earths with dialkyldithiophosphoric acids in "Chemical Aspects of Nuclear Methods of Analysis", IAEA-TECDOC-350, A technical document issued by the International Atomic Energy Agency, Vienna, 1985, p. 101-172.
132. I. Haiduc and C. Silvestru
Trichlorodiphenylantimony(V)
Inorg. Syntheses, **1985**, *23*, 194-195
131. P. B. Hitchcock, J. F. Nixon, I. Silaghi-Dumitrescu and I. Haiduc
The crystal and molecular structure of a versatile ligand: tetraphenyldithioimidodiphosphinate, $\text{Ph}_2(\text{S})\text{P-NH-P}(\text{S})\text{Ph}_2$
Inorg. Chim. Acta, **1985**, *96*, 77-80.
130. I. Silaghi-Dumitrescu and I. Haiduc
The electronic structure and bonding in the thiophosphoryl cation PS^+
Phosphorus & Sulfur, **1985**, *22*, 85-91.

1984

129. L. Silaghi-Dumitrescu, I. Haiduc and J. Weiss
Preparation and properties of some organotin dimethyl- and diphenyl-dithioarsinates. The crystal structure of $(\text{CH}_3)_2\text{Sn}[\text{S}_2\text{As}(\text{CH}_3)_2]_2$
J. Organomet. Chem., **1984**, *263*, 159-165

128. I. Silaghi-Dumitrescu and I. Haiduc
Electronic structure and force constants of the dithionitronium cation NS_2^+
J. Mol. Struct., **1984**, *106*, 217-223.
127. I. Haiduc, I. Silaghi-Dumitrescu, R. Grecu, R. Constantinescu and L. Silaghi-Dumitrescu
Vibrational spectra of phosphorodithioic metal complexes. Normal coordinate treatment of bis(O-isopropylethylthiophosphonato)nickel(II)
J. Mol. Struct., **1984**, *114*, 467-470.
126. T. Braun, P. Bull, J. Fardy, I. Haiduc, F. Makasek, W. J. McDowell, N. Z. Misak, J. D. Návrtil and T. Sato
Solvent extraction of uranium, thorium and rare earths with dialkyldithiophosphoric acids
J. Radioanal. Nucl. Chem., **1984**, *84*, 461-468
125. M. Curtui and I. Haiduc
Extraction of uranium(VI) with di-2-ethylhexylthiophosphoric acid in different organic solvents
J. Radioanal. Nucl. Chem. Letters, **1984**, *86*, 281-290.
- 1983**
124. I. Haiduc și C. Silvestru
Preparate neconvenționale în chimioterapie cancerului
in vol. "**Cancer-chimioterapie actuala**", Colectia Enciclopedica Oncologica, vol.12, 1983, p.133-144.
123. I. Haiduc
An inorganic chemist's view on polymer chemistry
IUPAC Macromolecular Division, 29th International Symposium on Macromolecules. Plenary and invited lectures, Bucharest, Romania, September 5-9, 1983, Part 1, p.449-476.
122. L. Silaghi-Dumitrescu and I. Haiduc
Organo-silicon, -germanium and -lead derivatives of dimethyl- and diphenyl-dithioarsinic acids
J. Organomet. Chem., **1983**, *259*, 65-69.
121. R. Micu-Semeniuc, S. Popse and I. Haiduc
Some novel salts and ligand properties of the cyclic $\text{P}_2\text{S}_8^{2-}$ anion
Rev. Roum. Chim., **1983**, *28*, 605-614
120. L. Silaghi-Dumitrescu and I. Haiduc
A sulfotropic molecular rearrangement of diphenylphosphinyl diorganodithioarsinates. Formation of diorganoarsenic(III) diphenyldithiophosphinates
J. Organomet. Chem., **1983**, *252*, 295-299.
119. L. Silaghi-Dumitrescu and I. Haiduc
Convenient preparation of phenylarsenic(III) chlorides from tetraphenyltin and arsenic(III) chloride
Synth. React. Inorg. Metal-org. Chem., **1983**, *13*, 475-480
118. D. B. Sowerby, I. Haiduc, A. Barbul-Rusu and M. Sălăjan
Antimony(III) diorganophosphoro- and diorganophosphinodithioates. Crystal structure of $\text{Sb}[\text{S}_2\text{P}(\text{OR})_2]_3$ (R = Me or i-Pr)
Inorg. Chim. Acta, **1983**, *68*, 87-96
117. I. Haiduc, C. Silvestru and M. Gielen
Organotin compounds: new organometallic derivatives exhibiting antitumor activity
Bull. Soc. Chim. Belge, **1983**, *92*, 187-189

116. I. Haiduc
The coverage of inorganic heterocycles in Chemical Abstracts
J. Chem. Inf. Computer Sci., **1983**, *23*, 74-79

115. I. Haiduc
Inorganic cyclic compounds: Annual review covering year 1980
Revs. Inorg. Chem., **1983**, *5*, 7-121

1982

114. I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu and I. Haiduc
Normal coordinate analysis of the vibrational spectrum of dimethyldithioarsinato anion, $(\text{CH}_3)_2\text{AsS}_2^-$
Rev. Roum. Chim., **1982**, *27*, 911-916.

113. I. Haiduc
Contribuții la chimia coordinativă a liganzilor ditiiofosforici [Contributions to the coordination chemistry of dithiophosphoric ligands - *in Roumanian*]
Rev. Chim. (Bucuresti), **1982**, *33*, 234-238.

112. C. Silvestru and I. Haiduc
Combinățiile coordinative și organometalice în chimioterapia cancerului [Coordination and organometallic compounds in cancer chemotherapy - *in Roumanian*]
Rev. Chim. (Bucuresti), **1982**, *33*, 81-88.

111. P. Clare, D. B. Sowerby and I. Haiduc
The crystal structure of a cyclo-silazoxane $[(\text{Me}_2\text{Si})_2\text{ONC}_6\text{F}_5]_2$
J. Organomet. Chem., **1982**, *236*, 293-299.

110. I. Silaghi-Dumitrescu and I. Haiduc
Bonding in organophosphorus compounds. A CNDO/2 calculation of electronic structure
Phosphorus & Sulfur, **1982**, *12*, 205-212.

109. I. Haiduc
Interconversion reactions of inorganic heterocycles
Rev. Inorg. Chem., **1982**, *4*, 179-210.

108. I. Haiduc and L. Silaghi-Dumitrescu
Organotin and tin(IV) derivatives of dimethyldithioarsinic acid
J. Organomet. Chem., **1982**, *225*, 225-232.

1981

107. V. Coldea, M. Coldea and I. Haiduc
Proton magnetic resonance spectra of some di- and triorganotin mono- and dithiocarboxylates
Rev. Roum. Chim., **1981**, *26*, 71.

106. I. Haiduc
Coordination patterns of dithiophosphorus ligands
Rev. Inorg. Chem., **1981**, *3*, 353.

105. I. Haiduc
Inorganic heterocycles as ligands
Chem. Britain, **1981**, *17*, 330-333.

104. M. Curtui and I. Haiduc

Solvent extraction of thorium(IV) with diethyldithiophosphoric acid.

Radiochem. Radioanal. Letters, **1981**, *50*, 55-66.

103. M. Curtui and I. Haiduc

Solvent extraction of dioxouranium(VI) with dialkylphosphorodithioic acids. VI. Synergic effect of triphenylphosphine oxide

J. Inorg. Nucl. Chem., **1981**, *43*, 1076-1078.

1980

102. R. Micu-Semeniuc, F. Vesa and I. Haiduc

Transition metal complexes of organothiophosphorus ligands. VIII. Amine adducts of nickel(II) and cobalt(II) bis(diphenyl- and phenoxyethyl-phosphorodithioates)

Studia Univ. Babeş-Bolyai, Chemia, **1980**, *25*, 44-48.

101. I. Silaghi-Dumitrescu and I. Haiduc

Vibrational characteristics of Ni(II) dithiophosphinato chelates. Normal coordinate analysis and Urey-Bradley force field calculations of Ni[S₂P(CH₃)₂]₂.

Rev. Roum. Chim., **1980**, *25*, 823-830.

100. I. Silaghi-Dumitrescu and I. Haiduc

The infrared spectrum of dimethyldithiophosphinato anion (CH₃)₂PS₂⁻. Normal coordinate analysis and Urey-Bradley force field calculations

Rev. Roum. Chim., **1980**, *25*, 815-821.

99. R. Micu-Semeniuc, C. Opris and I. Haiduc

Transition metal complexes of organothiophosphorus ligands. VII. Amine adducts of di(□- and □-naphthyl)phosphorodithioato nickel(II)

Rev. Roum. Chim., **1980**, *25*, 1489-1498.

98. R. Micu-Semeniuc, L. Silaghi-Dumitrescu, N. Chirila and I. Haiduc

Transition metal complexes of organothiophosphorus ligands. VI. Six-coordinate adducts of nickel(II) bis(dialkyldithiophosphorodithiate) with aromatic amines

Rev. Roum. Chim., **1980**, *25*, 1025-1031.

97. V. Coldea and I. Haiduc

Determinarea staniului din compuşi organostanici [Determination of tin in organotin compounds - *in Roumanian*]

Rev. Chim. (Bucuresti), **1980**, *31*, 86.

96. V. Coldea and I. Haiduc

Preparation and spectral properties of some organotin mono- and dithiocarboxyates

Syn. React. Inorg. Metal-org. Chem, **1980**, *10*, 417.

95. I. Haiduc

A survey of the nomenclature of inorganic ring systems. Proposals for a unified nomenclature

Revs. Inorg. Chem, **1980**, *2*, 219-249.

94. J. L. Lefferts, K. C. Molloy, J. J. Zuckerman, I. Haiduc, M. Curtui, C. Guta and D. Ruse

Diorganotin(IV) bis(dithiophosphate) esters

Inorg. Chem, **1980**, *19*, 2861-8.

93. K. C. Molloy, M. B. Hossain, D. Van der Helm, J. J. Zuckerman and I. Haiduc
X-Ray crystal and molecular structure of bis(O,O'-diisopropyl dithiophosphato)diphenyltin(IV), a monomeric, molecular, virtual polymer
Inorg. Chem., **1980**, *19*, 2041-5.

92. J.L. Lefferts, K.C. Molloy, J.J. Zuckerman, I. Haiduc, C. Guta and D. Ruse
Triorganotin(IV) dithiophosphate esters
Inorg. Chem., **1980**, *19*, 1662-70.

91. M. J. Begley, D. B. Sowerby and I. Haiduc
Pentagonal pyramidal co-ordination; X-ray crystal structure of antimony(III) tris(diphenyldithiophosphate)
J. Chem. Soc. Chem. Commun., **1980**, 64-65.

1979

90. K. C. Molloy, M. B. Hossain, D. Van der Helm, J. J. Zuckerman and I. Haiduc
Crystal and molecular structure of (O,O'-diethylthiophosphato)triphenyltin(IV) at 138K. A unique monodentate dithiophosphate derivative
Inorg. Chem., **1979**, *18*, 3507-11.

89. S. P. Bone, D. B. Sowerby, R. Constantinescu and I. Haiduc
The preparation and crystal structure of bis(O-isopropyl-ethylthiophosphonato)nickel(II)
J. Chem. Res., **1979**, (S) 69; (M) 0933-0963.

88. I. Haiduc
Cyclic sulfur-nitrogen compounds
Methodicum Chemicum. Vol.7B, Main Group Elements and their Compounds, Edited by H. Zimmer and K. Niedenzu, Academic Press, New York, 1979, p. 789-809.

87. I. Haiduc and K. J. Wynne
Carbon-sulfur(VI) compounds
Methodicum Chemicum. Vol.7B, Main Group Elements and their Compounds, Edited by H. Zimmer and K. Niedenzu, Academic Press, New York, 1979, p. 670-734.

86. K. J. Wynne and I. Haiduc
Carbon-sulfur(IV) compounds
Methodicum Chemicum. Vol. 7B, Main Group Elements and their Compounds, Edited by H. Zimmer and K. Niedenzu, Academic Press, New York, 1979, p. 652-669.

85. R. Micu-Semeniuc, L. Dumitrescu-Silaghi and I. Haiduc
Transition metal complexes of organothiophosphorus ligands. V. Some aryl esters and amides of dithiophosphoric acid and their nickel(II) and cobalt(II and III) complexes
Inorg. Chim. Acta, **1979**, *33*, 281-285.

1978

84. O. Cozar, V. Znamirovski and I. Haiduc
Solvent dependent EPR spectra of copper(II)-monoethanolamine complexes in water-ethanol mixtures
Studia Univ. Babeş-Bolyai, Physica, **1978**, *23*, 6-9.

83. I. Haiduc
Inorganic fragments in graft and block copolymers: a review of solved and unsolved problems
J. Polym. Sci., Polym. Symp., **1978**, *64*, 43-55.

82. M. Curtui, I. Haiduc and G. Marcu
Solvent extraction of dioxouranium(VI) with dialkyldithiophosphoric acids. IV. Partition in the benzene-water solvent system
J. Radioanal. Chem., **1978**, *44*, 109-117.

1977

81. G. Marcu, I. Haiduc and Maria Curtui
Solvent extraction of uranium(VI) with dialkylphosphorodithioic acids. VII. The synergistic effect of n-butanol in the extraction with benzene
Studia Univ. Babeş-Bolyai, Chemia, **1977**, *22*, 49-54.

80. I. Haiduc, G. Marcu and M. Curtui
Solvent extraction of uranium(VI) with dialkylphosphorodithioic acids. V. Synergistic effect of tributylphosphate
Rev. Roum. Chim., **1977**, *22*, 626-632.

79. I. Balazs, V. Fărcăşan and I. Haiduc
Synthesis of di- and triphenyllead polychloroacetates
Rev. Roum. Chim., **1977**, *22*, 379-383.

78. K. A. Andrianov, M. Curtui, P. L. Prohodko, I. Haiduc, V. M. Kopylov, Z. Syrtsova and M. I. Shkolnik
Reactions of organosilazanes with alcohols (original in Russian)
Zhur. Obshch. Khim., **1977**, *47*, 600-603.

77. I. Gergen, R. Micu-Semeniuc and I. Haiduc
Mixed ligand nickel(II) complexes containing tetrathiomolybdate and tetrathioarsenate groups and diamines
Syn. React. Inorg. Metal-org. Chem., **1977**, *7*, 183-193.

76. G. Marcu, M. Curtui and I. Haiduc
Solvent extraction of dioxouranium(VI) with dialkylphosphorodithioic acids. I. The mechanism of extraction in n-butanol
J. Inorg. Nucl. Chem., **1977**, *39*, 1415-1418.

75. I. Haiduc and V. Popa
Metal complexes of π -ligands containing organosilicon groups
in vol. **Advances in Organometallic Chemistry**, Edited by F.G.A. Stone and R. West, Academic Press, New York, 1977, Vol. **15**, p. 113-146.

74. I. Haiduc
Recent advances in sulfur-nitrogen inorganic heterocycles
Annual Reports in Inorganic and General Synthesis-1976, Edited by H. Zimmer, Academic Press, New York, 1977, p. 350-372.

73. L. Marta and I. Haiduc
The platinum metals. Part I. Ruthenium, osmium, rhodium and iridium
Annual Reports in Inorganic and General Synthesis-1976, Edited by H. Zimmer, Academic Press, New York, 1977, p. 241-263.

1976

72. M. Curtui, G. Marcu and I. Haiduc
Solvent extraction of uranium(VI) with dialkylphosphorodithioic acids. III. Dialkylphosphorodithioic acids in nonmiscible water-n-butanol and water-benzene solvent extraction systems
Studia Univ. Babeş-Bolyai, Chemia, **1976**, *21*, 74-79.

71. M. Curtui, G. Marcu, M. Diaconeasa and I. Haiduc
Solvent extraction of uranium(VI) with dialkylphosphorodithioic acids.II. The extraction of uranium with diisopropyl- and bis(2-ethylhexyl)-phosphorodithioic acids in butanol
Studia Univ. Babeş-Bolyai, Chemia, **1976**, *21*, 63-67.
70. I. Haiduc
Cyclische Schwefel-Stickstoff Verbindungen
Methodicum Chemicum, Band 7. Hauptgruppenelemente und deren Verbindungen. Herausgegeben von H. Zimmer und K. Niedenzu, G. Thieme Verlag, Stuttgart, 1976, p. 811-829.
69. I. Haiduc und K. J. Wynnes
Kohlenstoff-Schwefel(VI) Verbindungen
Methodicum Chemicum, Band 7. Hauptgruppenelemente und deren Verbindungen. Herausgegeben von H. Zimmer und K. Niedenzu, G. Thieme Verlag, Stuttgart, 1976, p. 699-756.
68. K. J. Wynne und I. Haiduc
Kohlenstoff-Schwefel(IV) Verbindungen
Methodicum Chemicum, Band 7. Hauptgruppenelemente und deren Verbindungen. Herausgegeben von H. Zimmer und K. Niedenzu, G. Thieme Verlag, Stuttgart, 1976, p. 683-698.
67. D. B. Sowerby and I. Haiduc
The crystal structure of N,N'-diphenylethylenediamine-bis-(O,O'-diethylphosphorodithioato)-nickel(II)
Inorg. Nucl. Chem. Letters, **1976**, *12*, 791-793.
66. D. B. Sowerby and I. Haiduc
The crystal and molecular structure of a mixed ligand complex: tetramethylethylenediamine-bis(O,O'-diethylphosphorodithioato)nickel(II)
Inorg. Chim. Acta, **1976**, *17*, L 15-L16.
65. I. Haiduc and M. Curtui
Preparation of bis(dialkylphosphorodithioato)dioxo(triphenylphosphine oxide) uranium(VI) complexes
Syn. React. Inorg. Metal-org. Chem., **1976**, *6*, 125-132.
64. O. Cozar, V. Znamirovski and I. Haiduc
ESR investigation of the effect of ethanol upon the structure of [Cu(trien)SCN]SCN in mixed water-ethanol solutions
J. Molec. Struct., **1976**, *31*, 153-159.
63. R. Constantinescu, F. Martiņaş and I. Haiduc
Transition metal complexes of organothiophosphorus ligands. IV. Six-coordinate adducts of nickel(II) bis(dialkylphosphorodithioates) with symmetrically substituted ethylenediamines
Inorg. Chim. Acta, **1976**, *19*, 105-108.
62. R. Micu-Semeniuc, L. Dumitrescu-Silaghi and I. Haiduc
Transition metal complexes of organo-thiophosphorus ligands. III. Six-coordinate adducts of nickel(II) bis(diphenylphosphorodithioate) with aromatic and heterocyclic diamines
Inorg. Chim. Acta, **1976**, *17*, 5-11.
61. V. P. Botha, A. Ziegler and I. Haiduc
Transition metal complexes of organothiophosphorus ligands. II. Cobalt(II) chelates of some diphenylthiothiophosphoryl thioureas
Inorg. Chim. Acta, **1976**, *17*, 13-16.

1975

60. O. Cozar, V. Znamirovski and I. Haiduc
On the metal-ligand bonding in copper(II)-bis(8-hydroxyquinolate)
Studia Univ. Babeş-Bolyai, Physica, **1975**, *20*, 29-36.
59. I. Haiduc and V.P. Botha
Carbon-free chelate rings: inorganic metallocycles containing imidodiphosphinato groups
1er Symposium International de Chimie Heterocyclique minerale. Besancon, 16-19 Juin 1975, p. 437-449.
58. I. Haiduc, A. Ziegler and R. Küchel
Methyl-phenyl substituted cyclotrisilazanes. Preparation and isomerism
1er Symposium International de Chimie Heterocyclique Minerale. Besancon, 16-19 Juin 1975, p. 317-329.
57. I. Haiduc and E. Veres
Metal-organic derivatives of organo-thiophosphorus acids. II. Arylmercury dialkylphosphoro-dithioates
Syn. React. Inorg. Metal-org. Chem., **1975**, *5*, 115-122.
56. I. Haiduc, F. Martinas, D. Ruse and M. Curtui
Metal-organic derivatives of organo-thiophosphorus acids. I. Tri- and diphenyllead phosphorodithioates
Syn. React. Inorg. Metal-org. Chem., **1975**, *5*, 103-114.
55. A. Ziegler, V.P. Botha and I. Haiduc
Transition metal complexes of organothiophosphorus ligands. I. Nickel(II) chelates of some new diphenylthiophosphinyl thioureas
Inorg. Chim. Acta, **1975**, *12*, 123-128.

1974

54. I. Haiduc and Maria Curtui
Thin layer chromatography of some transition metal diethyldithiophosphates
Studia Univ. Babeş-Bolyai, Chemia, **1974**, *19*, 71-75.
53. I. Haiduc, R. B. King and H. Gilman
Reactions of some pentafluorophenyl-silicon derivatives with the η^5 -cyclopentadienyliron dicarbonyl anion
Rev. Roum. Chim, **1974**, *19*, 1709-1715.

1973

52. R. B. King, I. Haiduc and C. W. Eavenson
Reactions of transition metal compounds with macrocyclic alkadiynes. III. Intramolecular transannular cyclizations and related processes with iron carbonyls
J. Am. Chem. Soc., **1973**, *95*, 2508-2516.
51. R. B. King, I. Haiduc and A. Efraty
Reactions of transition metal compounds with macrocyclic alkadiynes. II. Cyclopentadienylnickel and dicobalthexacarbonyl complexes retaining the macrocyclic alkadiyne structure unit
J. Organomet. Chem, **1973**, *47*, 145-151.

1972

50. I. Haiduc
Some tendencies in the literature of organometallic chemistry
J. Chem. Documentation, **1972**, *12*, 175-178.

49. R. B. King and I. Haiduc

Some ring size effects in the intramolecular transannular cyclizations of macrocyclic alkadiynes with iron carbonyls

J. Am. Chem. Soc., **1972**, *94*, 4044-4046.

1971

48. I. Haiduc and H. Gilman

Reactions of polychlorobenzenes with organolithium reagents. Polychloroaromatic organosilicon compounds
Rev. Roum.Chim., **1971**, *16*, 907-918.

47. I. Haiduc and H. Gilman

The reaction of pentachloropyridine with some organolithium compounds
Rev. Roum.Chim., **1971**, *16*, 597-600.

46. I. Haiduc and H. Gilman

The reaction of tetrachlorothiophene with some organolithium compounds
Rev. Roum.Chim., **1971**, *16*, 305-310.

45. I. Haiduc and H. Gilman

N-Pentafluorophenylsilazanes and a cyclodigermazane
Syn. Inorg. Metal-org. Chem., **1971**, *1*, 75-81.

44. I. Haiduc and H. Gilman

N-Pentafluorophenyl substituted cyclosilazoxanes
Syn. Inorg. Metal-org. Chem., **1971**, *1*, 69-74.

1970

43. L. Vancea and I. Haiduc

The ammonolysis of organotrichlorosilanes
Studia Univ. Babes-Bolyai, Chemia, **1970**, 45-52.

42. F. Dénes, C. Ungurenasu and I. Haiduc

Plasma polymerization in electrical discharges. Condensation of octamethylcyclotetrasiloxane in a silent discharge
European Polymer J., **1970**, *6*, 1155-1160.

1969

41. D. Ballard, T. Brennan, F. W. G. Fearon, K. Shiina, I. Haiduc and H. Gilman

Silylation of some polyhalogenated compounds
Pure & Applied Chemistry, **1969**, *19*, 449-472.

40. I. Haiduc and H. Gilman

N-Dilithiopentafluoroaniline and some silicon and germanium organoderivatives
J. Organomet. Chem., **1969**, *18*, 5P-7P.

39. T. H. Kinstle, I. Haiduc and H. Gilman

Mass spectrometry of cyclopolysilanes
Inorg. Chim. Acta, **1969**, *3*, 373-377.

1968

38. C. Ungurenasu und I. Haiduc
Die Reaktion von Polydimethylsiloxanchloriden mit Bis-cyclopentadienyl-titan(IV)- dihydrogensulfid
Rev. Roum.Chim., **1968**, *13*, 957-962.

37. H. Gilman and I. Haiduc
Comment on the thermal decomposition of triphenylthallium
J. Am. Chem. Soc., **1968**, *90*, 5912.

36. I. Haiduc and H. Gilman
Selective reactions of organolithium reagents with some polychlorobenzenes
Chemistry & Industry (London), **1968**, 1278-1279.

35. I. Haiduc and H. Gilman
The metalation of some pentachlorophenyl-substituted organosilicon compounds
J. Organomet. Chem., **1968**, *14*, 79-85.

34. I. Haiduc and H. Gilman
Perhaloaromatic organosiloxanes
J. Organomet. Chem., **1968**, *14*, 73-78.

33. I. Haiduc and H. Gilman
Lithiation of 1,2,3-trichloro- and 1,2,3,4-tetrachlorobenzenes. Organosilicon derivatives
J. Organomet. Chem., **1968**, *13*, 4P-6P.

32. I. Haiduc and H. Gilman
Pentachloro- and pentafluorophenyl-dimethylchlorosilane
J. Organomet. Chem., **1968**, *13*, 257-260.

31. I. Haiduc and H. Gilman
Some organosilicon derivatives prepared via metalation of 1,3,5-trichlorobenzene
J. Organomet. Chem., **1968**, *12*, 394-396.

30. I. Haiduc, I. Haiduc and H. Gilman
Ultraviolet spectra of some polyhaloaromatic organosilicon derivatives
J. Organomet. Chem., **1968**, *11*, 459-462.

29. I. Haiduc and H. Gilman
Some organosilicon derivatives of 1,2,3,4-tetrafluorobenzene
J. Organomet. Chem., **1968**, *11*, 55-61.

1967

28. I. Haiduc
Chimia heterociclorurilor cu siliciu și azot [The chemistry of silicon-nitrogen heterocycles - in *Roumanian Studii Cercet. Chimie (Bucuresti)*], **1967**, *15*, 71-127.

1966

27. I. Haiduc
Despre sinteza organociclosilazanilor și a unor compuși înrudiți [About the syntesis of organocyclosilazanes and related compounds - in *Roumanian Studia Univ. Babes-Bolyai, Chemia*], **1966**, 43-46.

26. I. Haiduc

A convenient method for preparing short-chain α,ω -dichloromethylsiloxanes
Rev. Roum.Chim., **1966**, *11*, 897-899.

1965

25. I. Haiduc

Combinatiile organice ale siliciului. II. Polimeri silicoorganici [Organic compounds of silicon. I. Organosilicon polymers - *in Roumanian*]
Studii Cercet. Chimie (Bucuresti), **1965**, *13*, 813-833.

24. I. Haiduc

Combinatiile organice ale siliciului. I. Monomeri silicoorganici [Organic compounds of silicon. I. Organosilicon monomers - *in Roumanian*]
Studii Cercet. Chimie (Bucuresti), **1965**, *13*, 789-811.

23. I. Haiduc

Contributions to the chemistry of polysilazanes. Polysilazoxanes
International Symposium on Organosilicon Chemistry. Scientific Communications, Prague, 1965, 301-5.

22. I. Haiduc und H. Mantsch

Das Infrarotspektrum einiger neuer Methylsilazoxanringe
Spectrochim. Acta, **1965**, *21*, 981-985.

21. K. A. Andrianov, I. Haiduc and L. M. Khananashvili

The ability of elements to form polymers with inorganic molecular chains (in Russian)
Uspekhi Khim., **1965**, *34*, 27-43.

Russ. Chem. Revs. (Engl.transl.), **1965**, *34*, 13.

Reprinted in the volume "Progress of Polymer Chemistry" (in Russian), Edited by V.V. Korshak, Izdatel'stvo Akademii nauk SSSR, Moskva, 1969, p.32.

1964

20. I. Haiduc

Carboranii $B_nC_2H_{n+2}$ - o nouă clasă de compuși cvasiaromatici [Carboranes $B_nC_2H_{n+2}$ - a new class of quasiaromatic compounds - *in Roumanian*]
Studii Cercet. Chimie (Bucuresti), **1964**, *13*, 783-803.

19. K. A. Andrianov, I. Haiduc and L. M. Khananashvili

Formation of polycyclic silazanes in the ammonolysis of dimethyldichorosilane
Zhur. Obshch. Khim., **1964**, *34*, 912
J. Gen. Chem. USSR (Engl. transl.), **1964**, *34*, 905.

1963

18. K. A. Andrianov, I. Haiduc and L. M. Khananashvili

New eight-membered cyclosilazoxanes
Izvest. Akad. Nauk SSR, Ser. Khim., **1963**, 1701-1702.
Bull. Acad. Sci. USSR, Ser. Khim. (Engl. transl.), **1963**, 1565.

17. I. Haiduc and K. A. Andrianov

Nomenclature of inorganic silicon heterocycles
Izvest. Akad. Nauk SSR, Ser. Khim., **1963**, 1537-1544.
Bull. Acad. Sci. USSR, Ser. Khim. (Engl. transl.), **1963**, 1403.

16. K. A. Andrianov, I. Haiduc and L. M. Khananashvili

A new inorganic ring - trisildiazoxane

Zhur. Obshch. Khim., **1963**, 33, 2790-2791.

J. Gen. Chem. USSR (Engl. transl.), **1963**, 33, 2717-.

15. K. A. Andrianov, I. Haiduc and L. M. Khananashvili

Unsaturated derivatives of cyclotrisilazane and their structure

Doklady Akad. Nauk SSSR, **1963**, 150, 93-95.

14. K. A. Andrianov, I. Haiduc and L. M. Khananashvili

Inorganic silicon-containing cyclic compounds and their organic derivatives

Uspekhi Khim., **1963**, 32, 539-589.

Russian Chem. Revs. (Engl. transl.), **1963**, 32, 243.

13. K. A. Andrianov, I. Haiduc, L. M. Khananashvili and M. B. Lotarev

Synthesis of cyclosilazane vinyl derivatives

Izvest. Akad. Nauk SSR, Ser. Khim., **1963**, 948-950.

Bull. Acad. Sci. USSR, Ser. Khim. (Engl. transl.), **1963**, 860.

1962

12. K. A. Andrianov, I. Haiduc, L. M. Khananashvili and N. I. Nekhaeva

Synthesis of dimethylcyclosilthioxanes

Zhur. Obshch. Khim., **1962**, 32, 3447-3448.

J. Gen. Chem. USSR (Engl.transl.), **1962**, 32, 3447.

1961

11. I. Haiduc

Despre caracterul aromatic al ciclurilor anorganice [About the aromatic character of inorganic rings - *in Roumanian*]

Studia Univ. Babes-Bolyai, Chemia, Ser.I, **1961**, Fasc.2, p. 9-17.

10. I. Haiduc

Polymeric coordination compounds

Uspekhi Khim, **1961**, 30, 1124

Russ. Chem. Revs. (Engl. transl.), **1961**, 30, 243.

9. I. Haiduc

About the systematization of inorganic cyclic compounds (*in Russian*)

Zhur. Strukt. Khim., **1961**, 2, 374-382.

8. I. Haiduc

A systematization of inorganic cyclic compounds

J. Chem. Educ., **1961**, 38, 134-137.

1960

7. I. Haiduc si G. Marcu

Cercetări asupra cobaltowolframaților cu ajutorul cobaltului radioactiv Co-60. Reacții de interconversiune. Schimb izotopic [Investiagtion of cobaltotungstates with the aid of radioactive cobalt Co-60. Interconversion reactions. Isotopic exchange - *in Roumanian*]

Studia Univ. Babes-Bolyai, Chemia, Ser. I, **1960**, Fasc.2, p. 77-84.

6. R. Ripan, G. Marcu și I. Haiduc

Cercetarea schimbului izotopic între cobaltimolibdați și ionul Co^{2+} marcat cu cobalt radioactiv-60 [isotopic exchange between cobaltimolibdates and Co^{+2} ion labelled with radioactive cobalt-60 - *in Roumanian*]
Studia Univ. Babes-Bolyai, Chemia, Ser.I, 1960, Fasc.1, p. 71-76.

5. I. Haiduc

Despre relația dintre chimia organică și anorganică
Studia Univ. Babes-Bolyai, Chemia, Ser.I, 1960, Fasc. 2, p. 23-38.

4. I. Haiduc

Electronegativity of elements and the formation of inorganic rings and chains
Zhur. Obshch. Khim., 1960, 30, 1395-1396.

J. Gen. Chem. USRR (Engl. transl.), 1960, 30, 1426

3. I. Haiduc

Sur la structure probable de la silicodiimide SiN_2H_2
Bull. Soc. Chim. France, 1960, 489-490.

1959

2. I. Haiduc

Despre structura heteropoliacizilor [About the structure of heteropolyacids - *in Roumanian*]
Rev. Chim. (Bucuresti), 1959, 10, 168-170.

1956

1. I. Haiduc

Compuși macromoleculari și ciclici anorganici [Macromolecular and cyclic inorganic compounds - *in Roumanian*]
Rev. Chim. (Bucuresti), 1956, 7, 721-725.

III. SCIENCE MANAGEMENT AND POLICY

(mostly in Romanian)

1992

R. Grigorovici and I. Haiduc

Evaluarea institutelor de cercetare științifică.
Academica, Anul II, Nr. 10 (22) August 1992, p. 1, 28-29;

1994

I. Haiduc

Science in post-communist Romania: scientific societies, legal framework, ethical issues
NATO Advanced Workshop “Developing an Infrastructure for Science and Technology in Eastern Europe: The Role of Professional Societies”, Visegrad, Hungary, October 28-31, 1994.

I. Haiduc

Știința în România post-comunistă: societățile științifice, cadrul legal, aspectele etice
Academica, Anul V, Nr. 2(50) Dec. 1994, p. 12-13.

1995

I. Haiduc

Links between Romanian universities and the Romanian Academy

Higher Education in Europe, 1995, 20(4) 168-175.

Versiunea franceza:

I. Haiduc

Les liens entre les universites roumaines et l'Academie Roumaine

Enseignement Superieur en Europe, 1995, 20(4) 178-184.

1997

I. Haiduc

De ce este "invizibilă" știința românească ?

Revista 22 (București) 1997, Nr. 17, p. 12.

1998

I. Haiduc

Cercetarea fundamentală și dezvoltarea economică

Academica, Anul VIII, Nr. 6 (90) Aprilie 1998, p.27.

Reprodus în **Caiete Critice** 1998, Nr. 5-8(127-130) pag. 149-152.

I. Haiduc

Dezvoltarea economică, cercetarea fundamentală și cauzele invizibilității științei românești

In vol. "**Scientometria și Politica Științei**", Academia Română, București, 1998, pag. 5-9 (Simpozion 20 Mai 1998).

1999

I. Haiduc

Centrele de excelență din Academia Româna

Academica, Anul IX, Nr. 3 (99), Ianuarie 1999, p. 28-29.

I. Haiduc

"Conferința Mondială pentru Știința Secolului 21-Un Nou Angajament", Budapesta 25 iunie-1 iulie 1999.

Lucrări pregătitoare

Academica, Anul IX, Nr. 6 (102), Aprilie 1999, p. 22-23.

I. Haiduc

Academia Româna în perspectiva științei în secolul XXI

Academica, Anul IX, Nr. 7-8 (103-104) Mai-iunie 1999, p. 4-6.

I. Haiduc

După Conferința Mondială pentru Știința: satisfacții și decepții

Academica, Anul IX, Nr. 9-10 (105-106) Iulie-august 1999, p. 13.

2000

I. Haiduc

Scientometric comments on biology, chemistry and medicine

In vol. **Metal Elements in Environment, Medicine and Biology**, Edited by Z. Garban and P. Dragan, Volume IV, Publishing House "Eurobit" Timisoara, 2000, p. 59-64.

2001

I. Haiduc

Imaginea externa a științei românești. Raport prezentat la Conferința Internațională “România și Românii în Știința Contemporană”, Sinaia, 13-17 iunie 2001

Curierul de Fizica, Anul XII, Nr. 38, septembrie 2001, pag. 9-12.

2002

I. Haiduc

Vizibilitatea internațională a cercetării românești. Rolul și efectele colaborării internaționale.

Comunicare prezentată la Simpozionul “Perspectiva Cercetării-Dezvoltării în Chimia Românească. Între Supraviețuire și Speranță” (Academia de Științe Tehnice din România, Secțiunea Inginerie Chimică), București, 20 iunie 2002.

I. Haiduc

Cercetarea științifică din România oglindită într-un recent raport american

Academica, Anul XII, Nr. 4, Iulie 2002, p. 55-60.

Republicat în: **Curierul de Fizica**, Anul XIII, Nr. 3 (42), Septembrie 2002, p. 14-16.

Revista de Politica Stiintei si Scientometrie, **2003**, 1, 18-24.

I. Haiduc

Cercetarea științifică din România în context internațional. Evoluții recente. Colaborări internaționale

Academica, Anul XII, Nr. 2-3, Mai-Iunie 2002, p. 56-59.

Republicat în: **Curierul de Fizica**, Anul XIII, Nr. 3 (42), Septembrie 2002, p. 16-17.

Revista de Politica Stiintei si Scientometrie, **2003**, 1, 33-7.

I. Haiduc

Ethical aspects of scientific research in chemistry, biology and medicine

In vol. **Metal Elements in Environment, Medicine and Biology**, Edited by Z. Garban, P. Dragan and G. Garban, Tome V, Publishing House “Eurobit” Timisoara, 2002, pp. 71-76.

2005

I. Haiduc

Aspecte etice ale cercetării științifice în chimie, biologie și medicină

Revista de Politica Stiintei si Scientometrie 2005, 3(1) 37-42.

IV. Other writings (in Romanian)

I. Haiduc

Proiectul Roșia Montana - între riscuri și beneficii [varianta scurta]

Academica, Anul XIII, Nr. 12, Martie 2003, p. 34-35.

I. Haiduc

Proiectul Roșia Montana - analiza raportului dintre riscuri și beneficii

Academica, Anul XIII, Nr. 13-14, Aprilie-Mai 2003, p. 77-80.

I. Haiduc

Proiectul Roșia Montana - între riscuri și beneficii [varianta extinsă]

(a) în cotidianul **Curentul**, anul VIII, Nr. 118 (1699) joi 29 mai 2003, pag. 9.

(b) în cotidianul **Economistul**, anul XIII, Nr. 1382 (2408) marți, 17 iunie 2003, pag. 3.

(c) în săptămânalul **Flacara lui Adrian Paunescu**, anul III, nr. 47 (114) 20 Noiembrie 2003, p. 12-13 (variantea cu anexe)

(d) în volumul **Prezent și perspective de dezvoltare durabilă a zonei Roșia Montana** (Colecția Biblioteca Economică, Seria Studii și Cercetări Economice, vol. 11-12), Academia Română, Centrul de Informare și Documentare Economică, Buxcurești 2003, p. 25-29.

I. Haiduc

Originea unei cariere [despre experiența bursei Fulbright]

Revista 22, anul XIV, Nr. 693, Supliment PLUS Nr. 154 din 17 iunie 2003, pag. V.

I. Haiduc

Miracolul științei americane

Revista Româno-Americană (editată de Asociația "Amicii Statelor Unite") Decembrie 2003, Serie nouă, Nr. VII-VIII, p. 16-20.

2004

I. Haiduc, Stefan Ragalie

Considerații economice privind riscurile și oportunitatea investiției de la Roșia Montana

Academica, 2004, Anul XIV, Nr. 26 (163) p. 66-69.

S. Ragalie, I. Haiduc

Riscuri și alternative de dezvoltare a zonei Roșia Montana

în volumul: **Fenomene și procese cu risc major la scara națională**, Academia Română, Coordonatori F. G. Filip, B. C. Simionescu, Editura Academiei Române, București, 2004, 381-391.

I. Haiduc

Riscurile de mediu ale proiectului Roșia Montana

ECO-TERRA, 2004, nr. 1-2, p. 10.

I. Haiduc

Migrația internațională a tinerilor cercetători: cauze, efecte, soluții

în volumul: Institutul Cultural Roman, Conferința Internațională **MIGRAȚIA TINERILOR CERCETĂTORI ROMANI. PERFORMANȚE și CAI DE INTOARCERE**, Sinaia, 14-18 octombrie 2004, pp.16-31.

I. Haiduc

Cinci decenii de călătorii prin chimia anorganică

Timisoara

2005

I. Haiduc and I. Haiduc

COMMENTS ON A CONTROVERSIAL GOLD MINING PROJECT IN WESTERN CARPATHIANS. ENVIRONMENTAL AND OTHER ASPECTS

În volumul **SUSTAINABILITY FOR HUMANITY & ENVIRONMENT IN THE EXTENDED CONNECTION FIELD SCIENCE – ECONOMY - POLICY**, Editura Politehnică, Timișoara 2005, pag. 53-60 (Scientific reunion of the special program of the Alexander von Humboldt Foundation concerning the reconstruction of the South Eastern Europe, Timisoara, 24-25 February 2005-02-27).

I. Haiduc

Aspecte etice ale cercetării științifice în chimie, biologie și medicină

Revista de Politica Științei și Scientometrie, **2005**, 3, 37-42.