



## PROFESSOR IONEL HAIDUC

This year Professor Ionel Haiduc, President of the Roumanian Academy, celebrates his 75<sup>th</sup> birthday. Born in Cluj on May 9<sup>th</sup>, 1937, Ionel Haiduc graduated from the Faculty of Chemistry of the University of Cluj in 1959 with the best marks to all exams. 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 Chemical Technology in Moscow under the guidance of the Academician K.A. Andrianov.

The scientific life of Acad. Ionel Haiduc was linked to the Faculty of Chemistry, "Babes-Bolyai" University Cluj-Napoca, 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 post doctoral 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.

Scientific interest 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 Roumania.

A creative mind, born to be a leader, Professor. Ionel Haiduc was always connected to the different aspects of the chemists' community life. As a member of many academic bodies, he was involved in Science policy and management, fighting for quality in all academic activities

The monumental contribution of Acad. Ionel Haiduc to the fields of inorganic and organometallic chemistry can be summarized; his scientific work is covered by 9 books (published in Roumanian, Polish, English and Greek), 25 chapters in collective volumes and more than 400 scientific and review articles (as shown in the list of publications). The chemistry of Inorganic Ring Systems – several books published: the early Roumanian version, "Introducere în 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 compușilor metalorganici" (The Chemistry of Metalorganic Compounds) served as an unique source of information for many years for the Roumanian students, and 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 Organometallics in Cancer Chemotherapy published with C. Silvestru) was completing the studies on their synthesis and structural characterization.

"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. 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 titular member in 1991. He was president of the Cluj-branch and vice-president of the Roumanian Academy (1998-2000). Since 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*, “Gh. Asachi” Technical University, Iași, Roumania (2002) and Polytechnical University of Timișoara, Roumania (2004), Prize of Roumanian Chemical Society (2004), Nenițescu-Criegee Prize (2005).

He also was awarded by the Presidents of Roumania with “*Star of Roumania*” [“*Steaua României*”] (2000) and in 2006 and “*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 and Mexico, Singapore.

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

At his 75<sup>th</sup> anniversary, the Editorial Board of *Revue Roumaine de Chimie* along with the whole community of Roumanian chemists present to professor Ionel Haiduc the very best wishes for a long healthy and fruitful life, lot of success in the years to come and express their appreciation for his entire work.

*The Editorial Board*

**LIST OF PUBLICATIONS**  
(from the most recent to the first)

**I. CHEMISTRY PUBLICATIONS**

1. BOOKS

*Ionel Haiduc* and Frank T. Edelman

**Supramolecular Organometallic Chemistry**  
Wiley-VCH, Weinheim, New York, 1999 (470 pag.)

*Ionel Haiduc* and Cristian Silvestru

**Organometallics in Cancer Chemotherapy. Volume 2. Transition Metal Compounds**  
CRC Press, Inc., Boca Raton, Florida, 1990 (366 pag.)

*Ionel Haiduc* and Cristian Silvestru

**Organometallics in Cancer Chemotherapy. Volume 1. Main Group Metal Compounds**  
CRC Press, Inc., Boca Raton, Florida, 1989 (254 pag.)

*Ionel Haiduc* and D.B. Sowerby (Editors and authors)

**The Chemistry of Inorganic Homo- and Heterocycles**  
Academic Press, London, New York, 1987 (2 vols.)  
(Vol.1, 416 pag.; vol. 2, 460 pag.)

*I. Haiduc* and J.J. Zuckerman

**Basic Organometallic Chemistry**  
Walter de Gruyter Publ. Co., Berlin, New York, 1985 (488 pag.)

Greek language translation:

Ionel Haiduc, J.J. Zuckerman

**Βασική Οργανομεταλλική Χημεία**  
Εκδοσειξ Παπαξηση, Αθηνά 1987 (414 pag.)

Ionel Haiduc

**Chimia compușilor metalorganici** [*Chemistry of Organometallic Compounds – in Roumanian*]  
Editura Științifică, București, 1974 (492 pag.)

Ionel Haiduc

**The Chemistry of Inorganic Ring Systems**  
Wiley-Interscience, London, New York, 1970, 2 vols.  
(Vol.1, 622 pag.; vol. 2, 575 pag.)

Ionel Haiduc

**Introducere în chimia ciclurilor anorganice** [*Introduction to the Chemistry of Inorganic Rings – in Roumanian*]  
Editura Academiei, București, 1960 (338 pag.)

Polish language translation:

Ionel Haiduc

**Wstęp do chemii nieorganicznych związków pierścieniowych**  
PWN Warszawa, 1964 (369 pag.) (updated and revised version).

## 2. CHAPTERS IN BOOKS

*Ionel Haiduc*, Edward R.T. Tiekink and Julio Zukerman-Schpector: Supramolecular Aggregation Patterns and Stereochemical Consequences of Tellurium(lone pair)... $\pi$ (aryl) Interactions  
in vol. **The Importance of Pi-Interactions in Crystal Engineering, Frontiers in Crystal Engineering**, First Edition, Edited by E.R.T. Tiekink and J. Zukerman-Schpector, John Wiley & Sons, Ltd., New York, 2012, p. 301-322.

Ionel Haiduc: Inorganic (Carbon-Free) Chelate Rings: A Dithioimidodiphosphinato Ligand and Some of its Metal Complexes  
in vol. **Inorganic Experiments**, Third, Revised Edition, Edited by J. Derek Woollins, Wiley-VCH Verlag GmbH&Co, KGaA, Weinheim, 2010, p. 229-233 (reprinted of 1994 edition).

*Ionel Haiduc*, Edward R.T. Tiekink, and Julio Zukerman-Schpector: Intermolecular tin  $\pi$ -aryl interactions: fact or artifact? A new bonding motif for supramolecular self-assembly in organotin compounds  
in vol. **Tin Chemistry – Fundamentals, Frontiers and Applications**, Edited by M. Gielen, John Wiley & Sons, Ltd., Chichester, 2008, p. 392-411.

Ionel Haiduc: Supramolecular Organometallic Compounds  
in vol. **Encyclopedia of Supramolecular Chemistry**, Taylor and Francis, Ltd, London, 2007, vol. 1:1, p. 1-8.  
[http:// dx.doi.org/10.1081/E-ESMC-120041765](http://dx.doi.org/10.1081/E-ESMC-120041765)

Ionel 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. Devillanova, RSC Publishing, The Royal Society of Chemistry, London, 2007, p. 593-643.

*Ionel Haiduc*, Hemant K. Sharma and Keith 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, p. 100-157.

Ionel Haiduc: Phosphorus-Nitrogen Compounds  
in vol. **Encyclopedia of Inorganic Chemistry-Second Edition**, Edited by R.B. King, J. Wiley & Sons, Chichester, New York, Sept. 2005, vol. 7, p. 4329-4355.

Ionel Haiduc: Inorganic Ring Systems  
in vol. **Encyclopedia of Inorganic Chemistry-Second Edition**, Edited by R.B. King, J. Wiley & Sons, Chichester, New York, 2005, vol. 4, p. 2028-2055.

Edward R.T. Tiekink, *Ionel 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, p. 127-319.

Ionel 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.

Ionel Haiduc: 1,1-Dithiolato Ligands  
in vol. **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, p. 349-376.

Ionel Haiduc: Dichalcogenoimidodiphosph(in)ate Ligands  
in vol. **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, p. 323-347.

Hemant K. Sharma, *Ionel Haiduc*, Keith H. Pannell: Transition metal complexes of germanium, tin and lead  
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Ionel Haiduc: Cyclic inorganic oligomers and polymers  
in vol. **Cyclic Polymers**, Second edition, Edited by J.A. Semlyen, Kluwer Academic Publishers, Dordrecht, 2000, Chapter 14, p. 601-698.

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in vol. **Advances in Molecular Structure Research**, Edited by M. Hargittai and I. Hargittai, JAI Press Inc., Stanford, Conn, 2000, Vol. 6, p. 75-95.

*Ionel 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, p. 525-598.

Cristian Silvestru and *Ionel 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 (9 pages).

*Ionel Haiduc* and Cristian Silvestru: Supramolecular associations in organotin, organoantimony and other main group organometallic compounds  
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in vol. **Inorganic Experiments**, Edited by J. Derek Woollins, VCH Weinheim, New York, Basel, Cambridge, Tokyo, 1994, p. 145-149.

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in vol. **IUPAC Macromolecular Division, 29<sup>th</sup> International Symposium on Macromolecules. Plenary and invited lectures**, Bucharest, Roumania, September 5-9, 1983, Part 1, p. 449-476.

I. Haiduc: Cyclic sulfur-nitrogen compounds  
in vol. **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.

*I. Haiduc* and K.J. Wynne: Carbon-sulfur(VI) compounds  
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*I. Haiduc* and V. Popa: Metal complexes of  $\pi$ -ligands containing organosilicon groups  
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New York, 1977, Vol. 15, p. 113-146.

*I. Haiduc*: Recent advances in sulfur-nitrogen inorganic heterocycles  
in vol. **Annual Reports in Inorganic and General Synthesis-1976**, Edited by H. Zimmer, Academic Press,  
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Herausgegeben von H. Zimmer und K. Niedenzu, G. Thieme Verlag, Stuttgart, 1976, p. 683-698.

### 3. REVIEW ARTICLES IN JOURNALS

Ionel Haiduc: Supramolecular aspects of tin and lead chemistry  
**Appl. Organomet. Chem.**, 2007, **21**(7) 476-482.

Ionel Haiduc: Silicone grease: a serendipitous reagent for the synthesis of exotic molecular and  
supramolecular compounds  
**Organometallics**, 2004, **23** (1) 3-8.

Ionel 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”, Timișoara, 2004, p. 27-34.

Herbert W. Roesky, *Ionel Haiduc* and Narayan Hosmane: Organometallic oxides of main group and  
transition elements downsizing inorganic solids to small molecular fragments.  
**Chem. Revs.**, 2003, **103** (7) 2579-2596.

*Ionel Haiduc* and Lai Yoong 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** (1/2) 151-170.

Julio-Zukerman-Schpector and *Ionel Haiduc*: Tellurium  $\pi$ -aryl interactions: a new bonding motif for  
supramolecular self-assembly and crystal engineering  
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*Ionel Haiduc* and Julio Zukerman-Schpector: Supramolecular self-assembly through secondary bonds in  
organotellurium chemistry  
**Phosphorus, Sulfur & Silicon**, 2001, **171**, 171-185.

Julio Zukerman-Schpector and *Ionel Haiduc*: Diorganotellurium(IV) dihalides and secondary bonding; revisiting the coordination polyhedra

**Phosphorus, Sulfur & Silicon**, 2001, **171**, 73-112.

Ionel Haiduc: Thiophosphorus and related ligands in coordination, organometallic and supramolecular chemistry. A personal account

**J. Organomet. Chem.**, 2001, **623** (1/2) 29-42.

Herbert W. Roesky and *Ionel 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** (14) 2249-2264 (Dalton Perspectives).

Ionel 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.

Ionel 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 2<sup>nd</sup> International Symposium on Metal Elements in Environment, Medicine and Biology, Timișoara, October 27-29, 1996), Publishing House "Eurobit" Timișoara, 1997, p. 35-42.

*Ionel Haiduc* and D. Bryan 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**(15) 2469-2521.

Cristian Silvestru and *Ionel Haiduc*: Structural patterns in inorganic and organoantimony derivatives of oxo- and thiodiorgano-phosphorus ligands

**Coord. Chem. Rev.**, 1996, **147**, 117-146.

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**Polyhedron**, 1995, **14** (23/24) 3389-3472.

*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** (2) 301-326.

Ionel Haiduc: A graph-based classification and enumeration of inorganic homo- and heterocycles

**Phosphorus, Sulfur and Silicon**, 1992, **64**, 169-178.

*Ionel Haiduc* and Cristian Silvestru: Metal compounds in cancer chemotherapy

**Coord. Chem. Revs.**, 1990, **99**, 253-296.

*Ionel Haiduc* and Cristian Silvestru: Rhodium, iridium, copper and gold antitumor organometallic compounds (review)

**In Vivo**, 1989, **3**, 285-293.

Maria Curtui and *Ionel Haiduc*: Extracția toriului și a pământurilor rare cu acizi dialchiliditiofosforici [*Extraction of thorium and rare earths with dialkyldithiophosphoric acids – in Roumanian*]

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

*Ionel Haiduc* and Ioan Silaghi-Dumitrescu: Inorganic (carbon-free) chelate rings

**Coord. Chem. Revs.**, 1986, **74**, 127-270.

I. Haiduc and C. Silvestru: Preparate neconvenționale în chimioterapia cancerului [*Unconventional compounds in cancer chemotherapy – in Roumanian*] in vol. “**Cancer-Chimioterapia actuală**”, Colecția Enciclopedică Oncologică, vol. 12, Cluj-Napoca, 1983, p.133-144.

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

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**Revs. Inorg. Chem.**, 1983, **5**, 7-121.

Ionel Haiduc: Contribuții la chimia coordinativă a liganzilor ditionofosforici [*Contributions to the coordination chemistry of dithiophosphorus ligands – in Roumanian*]  
**Rev. Chim. (București)** 1982, **33**, 234-238.

Cristian Silvestru and Ionel Haiduc: Combinațiile coordinative și organometalice în chimioterapia cancerului [*Coordination and organometallic compounds in cancer chemotherapy – in Roumanian*]  
**Rev. Chim. (București)** 1982, **33**, 81-88.

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

Ionel Haiduc: A survey of the nomenclature of inorganic ring systems. Proposals for a unified nomenclature  
**Revs. Inorg. Chem.**, 1980, **2**, 219-249.

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

Ionel Haiduc: Chimia heterociclorilor cu siliciu și azot [*The chemistry of silicon-nitrogen heterocycles – in Roumanian*]  
**Studii Cercet. Chimie (București)**, 1967, **15**, 71-127.

Ionel Haiduc: Combinațiile organice ale siliciului. II. Polimeri silicoorganici [*Organic compounds of silicon. I. Organosilicon polymers – in Roumanian*]  
**Studii Cercet. Chimie (București)**, 1965, **13**, 813-833.

Ionel Haiduc: Combinațiile organice ale siliciului. I. Monomeri silicoorganici [*Organic compounds of silicon. I. Organosilicon monomers – in Roumanian*]  
**Studii Cercet. Chimie (București)**, 1965, **13**, 789-811.

K.A. Andrianov, I. Haiduc and L.M. Khananashvili: The ability of elements to form polymers with inorganic molecular chains [*original in Russian*]  
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**Russ. Chem. Revs. (Engl. transl.)**, 1965, **34**, 13.  
Reprinted in the volume “**Progress of Polymer Chemistry**” [*original in Russian*], Edited by V.V. Korshak, Izdatel'stvo Akademii nauk SSSR, Moskva, 1969, p. 32.

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**Studii Cercet. Chimie (București)**, 1964, **13**, 783-803.

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**Uspekhi Khim.**, 1961, **30**, 1124  
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K.A. Andrianov, *I. Haiduc* and L.M. Khananashvili: Inorganic silicon-containing cyclic compounds and their organic derivatives [*original in Russian*]

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

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#### 4. RESEARCH PAPERS

##### 2011

Julio Zukerman-Schpector, Ionel Haiduc and Edward R.T. Tiekink

The metal–carbonyl... $\pi$ (aryl) interaction as a supramolecular synthon for the stabilisation of transition metal carbonyl crystal structures

**Chem. Commun.**, 2011, **47** (47) 12682-12684. /DOI 10.1039/c1cc15579b

Marius V. Câmpian, Ionel Haiduc, Peter Lönnecke and Edward R. T. Tiekink

Crystal and molecular structures of two triphenyllead xanthates,  $\text{Ph}_3\text{Pb}(\text{S}_2\text{COR})$ , R = Me and i-Pr, featuring weak intramolecular Pb...O interactions

**Z. Kristallogr.**, 2011, **226**, 780-785. / DOI 10.1524/zkri.2011.1416

##### 2010

Liviu Bolundut, *Ionel Haiduc*, Gabriele Kociok-Köhn and Kieran C. Molloy: Supramolecular self-assembly in the lead(II) bis(di-iso-butyl dithiophosphate).1,10-phenanthroline adduct,  $\text{Pb}[\text{S}_2\text{P}(\text{O}i\text{Bu})_2]_2\cdot\text{Phen}$

**Rev. Roum. Chim.**, 2010, **55** (11-12) 741-746.

Liviu Bolundut, *Ionel Haiduc*, Elena Ilyes, Gabriele Kociok-Köhn, Kieran C. Molloy, Santiago Gómez-Ruiz: Hydrogen bond supramolecular self-assembly in nickel(II) dithiophosphates,  $\text{Ni}[\text{S}_2\text{P}(\text{OR})_2]_2$ , R = *sec*-Bu, *iso*-Bu, and their bis(pyrazole) adducts

**Inorg. Chim. Acta**, 2010, **363** (15) 4319-4323; available on-line: OI:10:1016/j.ica.2010.07.017

Marius V. Câmpian, *Ionel Haiduc* and Edward R. T. Tiekink: Crystal and molecular structures of two 1:1 adducts of bis(O-ethyl dithiocarbonato-S,S')manganese(II):  $\text{Mn}(\text{S}_2\text{COCH}_2\text{CH}_3)_2(1,10\text{-phenanthroline})$  and  $\text{Mn}(\text{S}_2\text{COCH}_2\text{CH}_3)_2(2,2'\text{-bipyridyl})$

**J. Chem. Crystallogr.**, 2010, **40** (11) 1029-1034; available on-line: DOI:10.1007/s10870.010.9790-y

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**Inorg. Chim. Acta**, 2010, **363** (11) 2661-2663.

##### 2009

Efrén V. García-Báez, M. Gabriela Ballinas-López, María J. Rosales-Hoz, Marco A. Leyva, *Ionel Haiduc*, Cristian Silvestru: Reactivity of  $[\text{Ru}_3(\text{CO})_{12}]$  towards  $(\text{EPR}_2)(\text{E}'\text{PR}'_2)\text{NH}$  (R = Ph, Me; R' = Ph; E, E' = O, S, Se):  $^{31}\text{P}$  and  $^{77}\text{Se}$  NMR spectroscopic characterization and structural analysis of the complexes formed

**Polyhedron** 2009, **28** (17) 3747-3754.

Mircea Braban, *Ionel Haiduc*, and Peter Lönnecke: *catena*-Poly[[[(2,2'-bipyridyl)copper(II)]- $\mu$ -L-alaninato]perchlorate monohydrate]

**Acta Cryst.** 2009, **E65**, m51; Supplementary material sup1-sup10.

## 2008

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