

## Prof. Anca Silvestru

Prestația științifică a conducătorilor de doctorat

Fisa de indeplinire a standardelor minimale pentru abilitare:

Indeplinirea criteriilor CNADTCU pe toata activitatea

Lista celor 50 de lucrari selectate numerotate 1-50

1. A unique supramolecular structure of *catena*-poly[bis(m-diphenylphosphinodithioato)-ditellurium(I)(Te-Te)],  $[\text{Te}_2(\text{S}_2\text{PPh}_2)_2]_n$ , containing Te-Te $\cdots$ Te-Te $\cdots$  chains, M.G. Newton, R.B. King, I. Haiduc and A. Silvestru, *Inorg. Chem.*, **1993**, 32, 3795-3796.
2. 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, A. Silvestru, I. Haiduc, K.H. Ebert and H.J. Breunig, *Inorg. Chem.*, **1994**, 33, 1253-1254.
3. Diphenyltellurium(IV) bis(diorganophosphinodithioates). Crystal and molecular structure of  $\text{Ph}_2\text{Te}(\text{S}_2\text{PPh}_2)_2 \cdot 0.5\text{CHCl}_3$  and a multinuclear NMR study of the decomposition process of  $\text{Ph}_2\text{Te}(\text{S}_2\text{PR}_2)_2$  to  $\text{Ph}_2\text{Te}$  and  $[\text{R}_2\text{P}(\text{S})\text{S}]_2$ , A. Silvestru, I. Haiduc, H.J. Breunig and K.H. Ebert, *Polyhedron*, **1995**, 14, 1175-1183.
4. Triphenyltelluronium derivatives of dithiophosphorus ligands. Crystal and molecular structure of  $[\text{Ph}_3\text{Te}][\text{S}_2\text{PPh}_2]$  and  $[\text{Ph}_3\text{Te}][(\text{SPPH}_2)_2\text{N}]$ , displaying weak cation-anion Te $\cdots$ S secondary interactions, A. Silvestru, R.A. Toscano, I. Haiduc and H.J. Breunig, *Polyhedron*, **1995**, 14, 2047-2053.
5. Metal-oxygen vs. metal-sulfur bonding of the ambident monothiophosphinato ligand in some triphenylmetal(IV) derivatives,  $\text{Ph}_3\text{M}[\text{OSPR}_2]$  (M = Ge, Sn, Pb). Crystal structures of  $\text{Ph}_3\text{Ge}[\text{O}(\text{S})\text{PPh}_2]$  and  $[\text{Ph}_2\text{Sn}\{\text{O}(\text{S})\text{PPh}_2\}(\mu\text{-OH})_2]$ , A. Silvestru, C. Silvestru, I. Haiduc, J.E. Drake, J. Yang and F. Caruso, *Polyhedron*, **1997**, 16, 949-961.
6. The crystal and molecular structure of (diphenylmonothiophosphinato) triphenyltin(IV),  $[\text{Ph}_3\text{Sn}(\text{OSPPH}_2)]_n$ , exhibiting a polymeric chain supramolecular self-assembly, A. Silvestru, J.E. Drake, and J. Yang, *Polyhedron*, **1997**, 16, 4113-4119.
7. First nickel(II) complexes containing tetrahedral  $\text{NiO}_2\text{S}_2$  cores. The molecular structures of  $\text{Ni}[(\text{OPPh}_2)(\text{SPR}_2)\text{N}]_2$  (R = Ph, Me), A. Silvestru, D. Bilc, R. Rosler, J. E. Drake and I. Haiduc, *Inorg. Chim. Acta*, **2000**, 305, 106-110.
8. Hypervalent selenium compounds containing N $\rightarrow$ Se intramolecular interactions: synthesis, characterization and X-ray structures of  $[2-(\text{Me}_2\text{NCH}_2)\text{C}_6\text{H}_4]\text{SeS}(\text{S})\text{PR}_2$  (R = Ph, O<sup>i</sup>Pr), C. Deleanu, J. E. Drake, M. B. Hursthouse, M. Kulcsar, M. E. Leight and A. Silvestru, *Appl. Organomet. Chem.*, **2002**, 16, 727-731.
9. Solid-state structure and solution behaviour of hypervalent organoantimony halides containing 2-( $\text{Me}_2\text{NCH}_2$ ) $\text{C}_6\text{H}_4$ - moieties, L. M. Opris, A. Silvestru, C. Silvestru, H. J. Breunig and E. Lork, *Dalton Trans.*, **2003**, 4367 – 4374.

10. Synthesis and chemistry of hypervalent *cyclo*-R<sub>4</sub>Sb<sub>4</sub>, *cyclo*-(RSbE)<sub>n</sub> R = 2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>, E = O, S] and precursors.  
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11. Structure and *in vitro* antibacterial activity of BuSnCl<sub>3-n</sub>[(OPPh<sub>2</sub>)(SPPPh<sub>2</sub>)N]<sub>n</sub> (n = 1, 2)  
A. Rotar, A. Silvestru, C. Silvestru, J. E. Drake, M. B. Hursthouse, M. E. Light,  
L. Bunaciu, P. Bunaciu.  
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L. Lavanant, A. Silvestru, A. Faucheux, L. Toupet, R.F. Jordan, J.-F. Carpentier,  
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13. Solid state structure and solution behaviour of organoselenium(II) compounds containing 2-{E(CH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NCH<sub>2</sub>}C<sub>6</sub>H<sub>4</sub> groups (X = O, NMe)  
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A. Pop, A. Rotar, C. Rat, A. Silvestru.  
*Inorg. Chim. Acta*, **2008**, *361*, 255-261.
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16. Organoselenium(II) complexes containing organophosphorus ligands. Crystal and molecular structure of PhSeSP(S)Ph<sub>2</sub>, [2-{MeN(CH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NCH<sub>2</sub>}C<sub>6</sub>H<sub>4</sub>]SeSP(S)R'<sub>2</sub> (R' = Ph, OPr<sup>i</sup>) and [2-{O(CH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>NCH<sub>2</sub>}C<sub>6</sub>H<sub>4</sub>]SeSP(S)(OPr<sup>i</sup>)<sub>2</sub>,  
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A. Pöllnitz, C. Silvestru, J.-F. Carpentier, A. Silvestru,  
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23. Organoantimony(III) and -bismuth(III) hypervalent pseudohalides. An experimental and theoretical study  
A. Toma, C. I. Raţ, A. Silvestru, T. Ruffer, H. Lang, M. Mehring,  
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24. Organophosphorus ligands with XPNSO skeleton (X = O, S) and their Pd(II) complexes. Crystal and molecular structure of [ {XP(OEt)<sub>2</sub> } (O<sub>2</sub>SR)]NH (X = O, R = Me, Ph, X = S, R = C<sub>6</sub>H<sub>4</sub>Cl-4) and Pd[ {SP(OEt)<sub>2</sub> } (O<sub>2</sub>SC<sub>6</sub>H<sub>4</sub>Cl-4)N]<sub>2</sub>.  
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A. Pop, D. Rosca, R. Mitea, A. Silvestru,  
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26. Organoselenium(II) halides containing the pincer 2,6-(Me<sub>2</sub>NCH<sub>2</sub>)<sub>2</sub>C<sub>6</sub>H<sub>3</sub> ligand – an experimental and theoretical investigation  
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27. Copper(I) complexes with the triarylphosphanes PPh<sub>n</sub>(C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>NMe<sub>2</sub>-2)<sub>3-n</sub> (n = 0-2) and PPh<sub>2</sub>[C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>N(CH<sub>2</sub>CH<sub>2</sub>)<sub>2</sub>O-2]. Synthesis and structural characterization.  
A. Covaci, R. Mitea, I. Hosu, A. Silvestru,  
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28. Diorganochalcogen(II) ligands of type [R<sub>2</sub>C(OH)CH<sub>2</sub>](2-Me<sub>2</sub>NCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>)E (E = S, Se, Te; R = Me, Ph), and their silver(I) complexes.  
A. Pop, R. Mitea, A. Silvestru,  
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34. Cobalt(II) complexes of organophosphorus ligands with XPNSO skeleton (X = O, S). Solid state structure and solution behavior.  
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40. New hypercoordinated diorganotin(IV) compounds with dithiocarbamate ligands. Synthesis and structural characterization.  
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43. Hypercoordinated diorganoantimony(III) compounds of types [2-(Me<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub>]<sub>2</sub>SbL and [PhCH<sub>2</sub>N(CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>)<sub>2</sub>]<sub>2</sub>SbL (L = Cl, ONO<sub>2</sub>, OSO<sub>2</sub>CF<sub>3</sub>). Synthesis, structure and catalytic behaviour in the Henry reaction.  
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44. Group 12 metal complexes with P,N chelating triarylphosphanes. Solution behaviour and solid state structure.  
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47. Cu(II) and Ag(I) complexes of the pyrazole-derived diorganoselenide  $(\text{pzCH}_2\text{CH}_2)_2\text{Se}$ .  
Synthesis, solid state structure and solution behavior.  
R. A. Popa, V. Lippolis, A. Silvestru  
*Inorg. Chim. Acta*, **2021**, 520, 120272, [doi.org/10.1016/j.ica.2021.120272](https://doi.org/10.1016/j.ica.2021.120272).
48. Silver(I) complexes based on diorganoselenium(II) ligands with amino or hydroxo functionalities.  
M. David, R. Mitea, A. Silvestru,  
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49. Homoleptic and heteroleptic diorganoselenides containing pyrazole functionalities. Synthesis, characterization, and antioxidant activity.  
R. A. Popa, A. Nicoară, M. Arca, V. Lippolis, A. Pintus, A. Silvestru,  
*Appl. Organomet. Chem.*, **2022**, e6894. <https://doi.org/10.1002/aoc.6894>
50. On the coordination behaviour of diorganoselenium ligands based on amino and azole functionalities: silver(I) complexes with relevance for biological applications.  
R. A. Popa, M. David, E. Licarete, M. Banciu, A. Silvestru,  
*New J. Chem.*, **2022**, 46, 23019-23029.

**Tabelul 1.**

Nr. crt.	Nr lucrare anexa 1/ Revista	Punctaje			
		FIC	FIC <sub>D</sub>	FIC <sub>AP</sub>	FIC <sub>AC</sub>
	<b>Standardele</b>	<b>100</b>	<b>70</b>	<b>50</b>	<b>25</b>
1	1/ <i>Cat. Sci. Technol.</i>	6.177	6.177	6.177	6.177
2	2/ <i>Inorg. Chem.</i>	5.436	5.436	-	-
3	3/ <i>Inorg. Chem.</i>	5.436	5.436	5.436	-
4	12/ <i>Dalton Trans.</i>	4.569	4.569	-	-
5	13/ <i>Dalton Trans.</i>	4.569	4.569	-	-
6	16/ <i>Dalton Trans.</i>	4.569	4.569	4.569	4.569
7	20/ <i>Dalton Trans.</i>	4.569	4.569	-	-
8	23/ <i>Dalton Trans.</i>	4.569	4.569	4.569	4.569
9	24/ <i>Dalton Trans.</i>	4.569	4.569	-	-
10	25/ <i>Dalton Trans.</i>	4.569	4.569	4.569	4.569
11	29/ <i>Dalton Trans.</i>	4.569	4.569	-	-
12	32/ <i>Dalton Trans.</i>	4.569	4.569	4.569	4.569
13	38/ <i>Dalton Trans.</i>	4.569	4.569	4.569	4.569
14	39/ <i>Dalton Trans.</i>	4.569	4.569	4.569	4.569
15	11/ <i>Appl. Organomet. Chem.</i>	4.072	4.072	4.072	4.072
16	14/ <i>Appl. Organomet. Chem.</i>	4.072	4.072	-	-
17	41/ <i>Appl. Organomet. Chem.</i>	4.072	4.072	4.072	4.072
18	46/ <i>Appl. Organomet. Chem.</i>	4.072	4.072	4.072	4.072
19	49/ <i>Appl. Organomet. Chem.</i>	4.072	4.072	4.072	4.072

20	48/ <i>J. Mol. Struct.</i>	3.841	3.841	3.841	3.841
21	15/ <i>Organometallics</i>	3.837	3.837	-	-
22	21/ <i>Organometallics</i>	3.837	3.837	-	-
23	45/ <i>New J. Chem.</i>	3.925	3.925	3.925	3.925
24	50/ <i>New J. Chem.</i>	3.925	3.925	3.925	3.925
25	3/ <i>Polyhedron</i>	2.975	2.975	2.975	-
26	4/ <i>Polyhedron</i>	2.975	2.975	2.975	-
27	6/ <i>Polyhedron</i>	2.975	2.975	2.975	-
28	7/ <i>Polyhedron</i>	2.975	2.975	2.975	-
29	18/ <i>Polyhedron</i>	2.975	2.975	2.975	2.975
30	27/ <i>Polyhedron</i>	2.975	2.975	2.975	2.975
31	30/ <i>Polyhedron</i>	2.975	2.975	2.975	2.975
32	44/ <i>Polyhedron</i>	2.975	2.975	2.975	2.975
33	47/ <i>Polyhedron</i>	2.975	2.975	2.975	2.975
34	9/ <i>Inorg. Chim. Acta</i>	3.118	3.118	3.118	-
35	17/ <i>Inorg. Chim. Acta</i>	3.118	3.118	3.118	3.118
36	28/ <i>Inorg. Chim. Acta</i>	3.118	3.118	3.118	3.118
37	37/ <i>Inorg. Chim. Acta</i>	3.118	3.118	3.118	3.118
38	42/ <i>Inorg. Chim. Acta</i>	3.118	3.118	3.118	3.118
39	49/ <i>Inorg. Chim. Acta</i>	3.118	3.118	3.118	3.118
40	50/ <i>Inorg. Chim. Acta</i>	3.118	3.118	3.118	3.118
41	34/ <i>Tetrahedron</i>	2.388	2.388	2.388	2.388
42	19/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
43	22/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
44	26/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
45	31/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
46	33/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
47	35/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
48	36/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
49	43/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
50	45/ <i>J. Organomet. Chem.</i>	2.345	2.345	2.345	2.345
	<b>TOTAL</b>	<b>179,08</b>	<b>179,08</b>	<b>139,05</b>	<b>118,60</b>
	<b>Grad de indeplinire, %</b>	<b>179%</b>	<b>256%</b>	<b>278%</b>	<b>474%</b>
	<b>Grad de indeplinire Da/Nu</b>	<b>DA</b>	<b>DA</b>	<b>DA</b>	<b>DA</b>

**Tabelul 2**

<i>h</i> index realizat	23	25	23
Sursa	Scopus	Google Scholar	Web of Science
Barem <i>h</i> index	13		
Grad de indeplinire Da/Nu	DA		

Cluj-Napoca, 23.01.2026

*Anca Silvestre*