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Fisa de indeplinire a standardelor minime pentru abilitare

Tabelul 1

Nr lucrare anexa 1	Punctaje				observatii
	FIC	FIC _D	FIC _{AP}	FIC _{AC}	
Standardele	100	70	50	25	
1	72.087	72.087	72.087	-	
2	24.833	24.833	-	-	
3	24.833	24.833	24.833	24.833	
4	24.833	24.833	24.833	24.833	
5	24.833	24.833	-	-	
6	16.383	16.383	-	-	
7	6.065	6.065	-	-	
8	6.065	6.065	6.065	6.065	199.932
9	5.436	5.436	5.436	5.436	
10	5.436	5.436	5.436	5.436	
11	5.436	5.436	5.436	5.436	
12	5.436	5.436	-	-	
13	5.436	5.436	5.436	5.436	
14	5.436	5.436	-	-	
15	5.436	5.436	-	-	
16	5.436	5.436	-	-	
17	5.02	5.02	5.02	5.02	
18	4.569	4.569	4.569	4.569	
19	4.569	4.569	4.569	4.569	
20	4.569	4.569	4.569	4.569	
21	4.569	4.569	4.569	4.569	
22	4.569	4.569	4.569	4.569	
23	4.569	4.569	4.569	4.569	
24	4.569	4.569	4.569	4.569	
25	4.569	4.569	4.569	4.569	
26	4.569	4.569	4.569	4.569	
27	4.569	4.569	4.569	4.569	
28	4.569	4.569	4.569	4.569	
29	4.569	4.569	4.569	4.569	
30	4.569	4.569	4.569	4.569	
31	4.569	4.569	4.569	4.569	
32	4.569	4.569	4.569	4.569	
33	4.569	4.569	4.569	4.569	
34	4.569	4.569	4.569	4.569	

35	4.569	4.569	4.569	4.569
36	4.198	4.198	-	-
37	4.198	4.198	-	-
38	4.072	4.072	4.072	4.072
39	4.072	4.072	4.072	4.072
40	4.072	4.072	4.072	4.072
41	4.072	4.072	4.072	4.072
42	4.036	4.036	4.036	4.036
43	4.036	4.036	4.036	4.036
44	3.756	3.756	3.756	3.756
45	3.756	3.756	-	-
46	2.551	2.551	2.551	2.551
47	2.551	2.551	2.551	2.551
48	2.551	2.551	2.551	2.551
49	2.551	2.551	2.551	2.551
50	2.435	2.435	2.435	2.435
TOTAL	383.607	383.607	277.597	205.510
Grad de indeplinire Da/Nu	DA	DA	DA	DA
Grad de indeplinire (%)	383%	548%	555%	822%

Tabelul 2

h indexul realizat	36	37	37
Sursa	Web of Science	Google Scholar	Scopus
Barem h index	13		
Grad de indeplinire Da/Nu	DA		
Grad de indeplinire (%)	277%	285%	285%

Cluj Napoca

12.05.2024

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Hirsch index = 36

Sum of the Times Cited = 4550

Sum of Times Cited without self-citations = 3671
(Web of Science – Clarivate Analytics – July 20, 2023)

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

Anexa 1. Lista celor 50 de lucrari selectate

1. Structural chemistry of bismuth compounds. I. Organobismuth derivatives,
C. Silvestru, H. J. Breunig and H. Althaus,
Chem. Rev., **1999**, *99*, 3277-3328.
DOI: 10.1021/cr980083q FI₂₀₂₁ = 72.087
2. Metal compounds in cancer chemotherapy,
I. Haiduc and C. Silvestru,
Coord. Chem. Rev., **1990**, *99*, 253-296.
DOI: 10.1016/0010-8545(90)80065-2 FI₂₀₂₁ = 24.833
3. Structural patterns in inorganic and organoantimony derivatives of oxo- and thiodiorganophosphorus ligands,
C. Silvestru and I. Haiduc,
Coord. Chem. Rev., **1996**, *147*, 117-146.
DOI: 10.1016/0010-8545(95)01129-3 FI₂₀₂₁ = 24.833
4. Tetraorganodichalcogenoimidodiphosphorus acids and their Main Group metal derivatives,
C. Silvestru and J. E. Drake,
Coord. Chem. Rev., **2001**, *223 (1)*, 117-216.
DOI: 10.1016/S0010-8545(01)00387-3 FI₂₀₂₁ = 24.833

5. Hypervalent organoantimony and -bismuth compounds with pendant arm ligands,
C. I. Raț, C. Silvestru and H. J. Breunig,
Coord. Chem. Rev., **2013**, *257*, 818-879.
DOI: 10.1016/j.ccr.2012.07.026 FI₂₀₂₁ = 24.833

6. Phosphorescent excited state of $[\text{Au}_2\{(\text{Ph}_2\text{Sb})_2\text{O}\}_3]^{2+}$: Jahn-Teller distortion at only one gold(I) center,
V. R. Bojan, E. J. Fernandez, A. Laguna, J. M. Lopez-de-Luzuriaga, M. Monge, M. E. Olmos and
C. Silvestru,
J. Am Chem. Soc., **2005**, *127*, 11564-11565.
DOI: 10.1021/ja053237 FI₂₀₂₁ = 16.383

7. Experimental and theoretical evidence of the first metallophilic Au(I)···Bi(III) interaction,
E. J. Fernández, A. Laguna, J. M. López-de-Luzuriaga, M. Monge, M. Nema, M. E. Olmos, J. Pérez
and C. Silvestru,
Chem. Commun., **2007**, 571-573.
DOI: 10.1039/b613365g FI₂₀₂₁ = 6.065

8. Stable lead(II) boroxides,
A.-A. Someșan, E. Le Coz, T. Roisnel, C. Silvestru and Y. Sarazin,
Chem. Commun., **2018**, *54*, 5299-5302.
DOI: 10.1039/c8cc02459f FI₂₀₂₁ = 6.065

9. Crystal and molecular structure of bis(diphenyldithiophosphinato)lead(II), $[\text{Pb}(\text{S}_2\text{PPh}_2)_2]_n$,
a new type of polymer associated through $\text{Pb}\cdots\text{S}$ secondary interactions,
K. H. Ebert, H. J. Breunig, C. Silvestru, I. Stefan and I. Haiduc,
Inorg. Chem., **1994**, *33*, 1695-1699.
DOI: 10.1021/ic00086a020 FI₂₀₂₁ = 5.436

10. Crystal and molecular structure of tetramethyldithioimidodiphosphinic acid, $(\text{SPMe}_2)_2\text{NH}$, and its
cobalt(II) complex, $\text{Co}[(\text{SPMe}_2)_2\text{N}_2]_2$, containing a tetrahedral CoS_4 core,
C. Silvestru, R. Rösler, I. Haiduc, R. Cea-Olivares and G. Espinosa-Perez,
Inorg. Chem., **1995**, *34*, 3352-3354.
DOI: 10.1021/ic00116a030 FI₂₀₂₁ = 5.436

11. Isomers of a dibismuthane, $\text{R}_2\text{Bi}-\text{BiR}_2$ [$\text{R} = 2,6-(\text{Me}_2\text{NCH}_2)_2\text{C}_6\text{H}_3$], and unusual reactions with oxygen:
formation of $[\text{R}_2\text{Bi}]_2(\text{O}_2)$ and $\text{R}'\text{R}''\text{Bi}$ [$\text{R}' = 2-(\text{Me}_2\text{NCH}_2)-6-\{\text{Me}_2\text{N}(\text{O})\text{CH}_2\}\text{C}_6\text{H}_3$; $\text{R}'' = 2-(\text{Me}_2\text{NCH}_2)-6-$
 $\{\text{O}(\text{O})\text{C}\}\text{C}_6\text{H}_3$],
L. Balazs, H. J. Breunig, E Lork, A. Soran and C. Silvestru,
Inorg. Chem., **2006**, *45*, 2341-2346.

- DOI: 10.1021/ic052160n FI₂₀₂₁ = 5.436
12. Gold complexes with the selenolate ligand [2-(Me₂NCH₂)C₆H₄]Se⁻,
O. Crespo, M. C. Gimeno, A. Laguna, M. Kulesar and C. Silvestru,
Inorg. Chem., **2009**, *48*, 4134-4142.
DOI: 10.1021/ic802396g FI₂₀₂₁ = 5.436
13. Study of the coordination abilities of stibine ligands to gold(I),
V. R. Bojan, E. J. Fernández, A. Laguna, J. M. López-de-Luzuriaga, M. Monge, M. E. Olmos,
R. C. Puelles and C. Silvestru,
Inorg. Chem., **2010**, *49*, 5530-5541.
DOI: 10.1021/ic1003484 FI₂₀₂₁ = 5.436
14. Metallophilic bonding and agostic interactions in gold(I) and silver(I) complexes bearing a thiotetrazole unit,
A. Ilie, C. I. Raț, S. Scheutzw, K. Lux, T. M. Klapötke, C. Silvestru and K. Karaghiosoff,
Inorg. Chem., **2011**, *50*, 2675-2684.
DOI: 10.1021/ic102595d FI₂₀₂₁ = 5.436
15. Synthesis and characterization of organoantimony(III)-containing heteropolytungstates,
M. Barsukova-Stuckart, L. F. Piedra-Garza, B. Gautam, G. Alfaro-Espinoza, N. V. Izarova,
A. Banerjee, B. S. Bassil, M. S. Ullrich, H. J. Breunig, C. Silvestru and U. Kortz,
Inorg. Chem., **2012**, *51*, 12015-12022.
DOI: 10.1021/ic301892s FI₂₀₂₁ = 5.436
16. Tetra-antimony(III)-bridged 18-tungsto-2-arsenates(V), [(LSb^{III})₄(A- α -As^VW₉O₃₄)₂]¹⁰⁻ (L = Ph, OH):
turning bioactivity on and off by ligand substitution,
P. Yang, Z. Lin, B. S. Bassil, G. Alfaro-Espinoza, M. S. Ullrich, M.-X. Li, C. Silvestru and U. Kortz,
Inorg. Chem., **2016**, *55*, 3718-3720.
DOI: 10.1021/acs.inorgchem.6b00107 FI₂₀₂₁ = 5.436
17. Lead(II) siloxides,
A.-A. Someșan, E. Le Coz, C. I. Raț, V. Dorcet, T. Roisnel, C. Silvestru and Y. Sarazin,
Chem. Eur. J., **2019**, *25*, 16236-16240.
DOI: 10.1002/chem.201904713 FI₂₀₂₁ = 5.02
18. The first crystal structures of mixed chalcogen derivatives, R₂Sn[(OPPh₂)(SPPH₂)₂N]₂ (R = Me, Ph),
R. Rösler, J. E. Drake, C. Silvestru, J. Yang and I. Haiduc,
J. Chem. Soc., Dalton Trans., **1996**, 391-399.
DOI: 10.1039/DT9960000391 FI₂₀₂₁ = 4.569
19. Bis(thiophosphinoyl)amines and their neutral cobalt(II) complexes, containing stable

- tetrahedral CoS₄ cores. Crystal structures of NH(SPM₂)(SPPH₂) and [Co{(SPMe₂)(SPPH₂)N}₂],
C. Silvestru, R. Rösler, J. E. Drake, J. Yang, G. Espinosa-Pérez and I. Haiduc,
J. Chem. Soc., Dalton Trans., **1998**, 73-78.
DOI: 10.1039/a705086k FI₂₀₂₁ = 4.569
20. Hypervalent 5-*Bi*-12 derivatives containing dichalcogenoimidodiphosphinato ligands.
Crystal structure and solution behaviour of [2-(Me₂NCH₂)C₆H₄]BiCl[(XPR₂)(YPR'₂)N]
(X, Y = O, S, Se; R, R' = Me, Ph),
L. Balazs, O. Stanga, H. J. Breunig and C. Silvestru,
Dalton Trans., **2003**, 2237-2242.
DOI: 10.1039/b3012903 FI₂₀₂₁ = 4.569
21. Solid state structure and solution behaviour of hypervalent organoantimony halides containing
2-(Me₂NCH₂)C₆H₄- moieties,
L. M. Opris, A. Silvestru, C. Silvestru, H. J. Breunig and E. Lork,
Dalton Trans., **2003**, 4367-4374.
DOI: 10.1039/b306299f FI₂₀₂₁ = 4.569
22. Syntheses and chemistry of hypervalent *cyclo*-R₄Sb₄, *cyclo*-(RSbE)_n [R = 2-(Me₂NCH₂)C₆H₄,
E = O, S] and precursors,
L. M. Opris, A. Silvestru, C. Silvestru, H. J. Breunig and E. Lork,
Dalton Trans., **2004**, 3575 - 3585.
DOI: 10.1039/b409866h FI₂₀₂₁ = 4.569
23. Hypervalent organobismuth(III) carbonate, chalcogenides and halides with the pendant arm ligands
2-(Me₂NCH₂)C₆H₄ and 2,6-(Me₂NCH₂)₂C₆H₃,
H. J. Breunig, L. Königsmann, E. Lork, N. Philipp, M. Nema, C. Silvestru, A. Soran, R. A. Varga
and R. Wagner,
Dalton Trans., **2008**, 1831-1842.
DOI: 10.1039/b717127g FI₂₀₂₁ = 4.569
24. Monoorganobismuth(III) dihalides containing the new pincer 2,6-{MeN(CH₂CH₂)₂NCH₂}₂C₆H₃ ligand:
solution NMR, vibrational and single-crystal X-ray studies,
A. Soran, H. J. Breunig, V. Lippolis, M. Arca and C. Silvestru,
Dalton Trans., **2009**, 77-84.
DOI: 10.1039/b811713f FI₂₀₂₁ = 4.569
25. New chiral organoantimony(III) compounds containing intramolecular N→Sb interactions – solution
behaviour and solid state structures,
D. Copolovici, V. R. Bojan, C. I. Raț, A. Silvestru, H. J. Breunig and C. Silvestru,

- Dalton Trans.*, **2010**, *39*, 6410-6418.
DOI: 10.1039/c003318a FI₂₀₂₁ = 4.569
26. Organobismuth compounds with the pincer ligand 2,6-(Me₂NCH₂)₂C₆H₃: Monoorganobismuth(III) carbonate, sulfate, nitrate, and a diorganobismuthenium(III) salt,
H. J. Breunig, M. G. Nema, C. Silvestru, A. P. Soran and R. A. Varga,
Dalton Trans., **2010**, *39*, 11277-11284.
DOI: 10.1039/c0dt00927j FI₂₀₂₁ = 4.569
27. Organomercury(II) and -tellurium(II) compounds with the “pincer” ligand 2,6-[O(CH₂CH₂)₂NCH₂]₂C₆H₃ – stabilization of an unusual organotellurium(II) cationic species,
A. Beleagă, V. R. Bojan, A. Pölnitz, C. I. Raț and C. Silvestru,
Dalton Trans., **2011**, *40*, 8830-8838.
DOI: 10.1039/c1dt10414d FI₂₀₂₁ = 4.569
28. Organoantimony(III) compounds containing (imino)aryl ligands of the type 2-(RN=CH)C₆H₄ (R = 2',4',6'-Me₃C₆H₂, 2',6'-ⁱPr₂C₆H₃): bromides and chalcogenides,
A. M. Preda, C. I. Raț, C. Silvestru, H. J. Breunig, H. Lang, T. Ruffer and M. Mehring,
Dalton Trans., **2013**, *42*, 1144-1158.
DOI: 10.1039/c2dt32494f FI₂₀₂₁ = 4.569
29. Di(imino)aryltin(IV) dichlorides as potential tectons for heterometallic coordination compounds,
I. Barbul, R. A. Varga, K. C. Molloy and C. Silvestru,
Dalton Trans., **2013**, *42*, 15427-15436.
DOI: 10.1039/c3dt52022f FI₂₀₂₁ = 4.569
30. Organoselenium(II) halides containing the pincer 2,6-(Me₂NCH₂)₂C₆H₃ ligand – experimental and theoretical investigation,
A. Pop, A. Silvestru, E. J. Juárez-Pérez, M. Arca, V. Lippolis and C. Silvestru,
Dalton Trans., **2014**, *43*, 2221-2233.
DOI: 10.1039/C3DT52886C FI₂₀₂₁ = 4.569
31. A general route to monoorganopnicogen(III) (M = Sb, Bi) compounds with a pincer (N,C,N) group and oxo ligands,
G. Strîmb, A. Pölnitz, C. I. Raț and C. Silvestru,
Dalton Trans., **2015**, *44*, 9927-9942.
DOI: 10.1039/c5dt00603a FI₂₀₂₁ = 4.569
32. Mixed triorganobismuthines RAr₂Bi [Ar = C₆F₅, 2,4,6-(C₆F₅)₃C₆H₂] and hypervalent racemic Bi-chiral diorganobismuth(III) bromides RArBiBr (Ar = C₆F₅, Mes, Ph) with the ligand R = 2-(Me₂NCH₂)C₆H₄.

- Influences of the organic substituent,
M. Olaru, M. Nema, A. Soran, H. J. Breunig and C. Silvestru,
Dalton Trans., **2016**, *45*, 9419-9428.
DOI: 10.1039/C5DT05074J FI₂₀₂₁ = 4.569
33. Triphenylbismuth(V) di[(iso)nicotinate] - transmetallation agents or divergent organometallogands?
First organobismuth(V)-based silver(I) coordination polymers,
A. Ben Kiran, T. Mocanu, A. Pöllnitz, S. Shova, M. Andruh and C. Silvestru,
Dalton Trans., **2018**, *47*, 2531-2542.
DOI: 10.1039/c7dt04516f FI₂₀₂₁ = 4.569
34. Aminofluoroalkoxide amido and boryloxo lead(II) complexes,
A.-A. Someșan, T. Roisnel, V. Dorcet, C. Silvestru and Y. Sarazin,
Dalton Trans., **2019**, *48*, 9944-9948.
DOI: 10.1039/C9DT02110H FI₂₀₂₁ = 4.569
35. Organopnictogen(III) bis(arylthiolates) containing *NCN*-aryl pincer ligands: from synthesis and
characterization to reactivity,
G. Duneș, A. Soran and C. Silvestru,
Dalton Trans., **2022**, *51*, 10406-10419.
DOI: 10.1039/d2dt01436j FI₂₀₂₁ = 4.569
36. Reactivity of (*Z*)-4-arylidene-5(4*H*)-thiazolones: [2+2]-photocycloaddition, ring-opening reactions, and
influence of Lewis Acid BF₃,
S. Sierra, D. Dalmau, S. Higuera, D. Cortés, O. Crespo, A. Jimenez, A. Pop,
C. Silvestru and E. P. Urriolabeitia,
J. Org. Chem., **2021**, *86*, 12119-12140.
DOI: 10.1021/acs.joc.1c01458 FI₂₀₂₁ = 4.198
37. Stereoselective, ruthenium-photocatalyzed synthesis of 1,2-diaminotruxinic bis-amino acids
from 4-arylidene-5(4*H*)-oxazolones,
S. Sierra, M. V. Gomez, A. I. Jimenez, A. Pop, C. Silvestru, M. L. Marin, F. Boscá, G. Sastre,
E. Gómez-Bengoa and E. P. Urriolabeitia,
J. Org. Chem., **2022**, *87*, 3529-3545.
DOI: 10.1021/acs.joc.1c03092 FI₂₀₂₁ = 4.198
38. Synthesis, structural characterization and *in vitro* antitumor properties of triorganoantimony(V)
disalicylates. Crystal and molecular structures of [5-*Y*-2-(HO)-C₆H₃COO]₂SbMe₃ (Y = H, Me, MeO),
C. Silvestru, I. Haiduc, E. R. T. Tiekink, D. de Vos, M. Biessemans, R. Willem and M. Gielen,
Appl. Organomet. Chem., **1995**, *9*, 597-607.

- DOI: 10.1021/ic00128a027 FI₂₀₂₁ = 4.072
39. Synthesis, solution behaviour and X-ray structures of [2-(Me₂NCH₂)C₆H₄]SnCl₃ and [2-(Me₂NCH₂)C₆H₄]SnCl₃·DMSO,
R. A. Varga, C. Silvestru and C. Deleanu,
Appl. Organomet. Chem., **2005**, *19*, 153-160.
DOI: 10.1002/aoc.817 FI₂₀₂₁ = 4.072
40. Structure and *in vitro* antibacterial activity of BuSnCl_{3-n}[(OPPh₂)(SPPH₂)N]_n (n = 1, 2),
A. Rotar, A. Silvestru, C. Silvestru, J. E. Drake, M. B. Hursthouse, M. E. Light, L. Bunaciu and P. Bunaciu,
Appl. Organomet. Chem., **2005**, *19*, 555-562.
DOI: 10.1002/aoc.818 FI₂₀₂₁ = 4.072
41. Synthesis and characterization of [4-{(CH₂O)₂CH}C₆H₄]₂Hg, [4-(O=CH)C₆H₄]₂Hg and [(*E*)-4-(RN=CH)C₆H₄]₂Hg (R = 2'-py, 4'-py, 2'-pyCH₂, 4'-pyCH₂),
L. Kiss, A. Pop, S. Shova, C. I. Raț and C. Silvestru,
Appl. Organomet. Chem., **2021**, *35*, e6339.
DOI: 10.1002/aoc.6339 FI₂₀₂₁ = 4.072
42. Palladium(II) complexes with chiral organoantimony(III) ligands. Solution behavior and solid state structures,
D. Copolovici, F. Isaia, H. J. Breunig, C. I. Raț and C. Silvestru,
RSC Adv., **2014**, *4*, 26569-26576.
DOI: 10.1039/c4ra03482a FI₂₀₂₁ = 4.036
43. Hypervalent diorganoantimony(III) fluorides *via* diorganoantimony(III) cations – a general method of synthesis,
A. M. Preda, C. I. Raț, C. Silvestru, H. Lang, T. Ruffer and M. Mehring,
RSC Adv., **2015**, *5*, 99832-99840.
DOI: 10.1039/c5ra21788a FI₂₀₂₁ = 4.036
44. Bis(4-pyridyl)mercury – a new linear tecton in crystal engineering: coordination polymers and co-crystallization processes,
T. Mocanu, C. I. Raț, C. Maxim, S. Shova, V. Tudor, C. Silvestru and M. Andruh,
CrystEngComm, **2015**, *17*, 5474-5487.
DOI: 10.1039/c5ce00388a FI₂₀₂₁ = 3.756
45. Halogen bonding between entirely negative fluorine atoms? Evidence from the crystal packing of some gold(I) and gold(III) complexes with extensively fluorinated *m*-terphenyl ligands and triphenylphosphane,
A. Sava, K. T. Kegyes, B. T. Popuș, B. C. Dan, C. Silvestru and C. I. Raț,

CrystEngComm, **2020**, *22*, 8285-8289.

DOI: 10.1039/D0CE00671H

FI₂₀₂₁ = 3.756

46. Low-valent organobismuth compounds with intramolecular coordination: *cyclo*-R₃Bi₃, *cyclo*-R₄Bi₄, RBi[W(CO)₅]₂, and R₄Bi₂ [R = 2-(Me₂NCH₂)C₆H₄],
L. Balazs, H. J. Breunig, E. Lork and C. Silvestru,
Eur. J. Inorg. Chem., **2003**, 1361-1365.
DOI: 10.1002/ejic.200390176 FI₂₀₂₁ = 2.551
47. Structural diversity of coordination cores in new homoleptic tetraaryltin(IV) dioxolane, aldehyde and imines. First octacoordinated double helicate tetraorganotin(IV) compound,
I. Barbul, R. A. Varga and C. Silvestru,
Eur. J. Inorg. Chem., **2013**, 3146-3154.
DOI: 10.1002/ejic.201300245 FI₂₀₂₁ = 2.551
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