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**Publication list / Lista de publicații**

**A. Book chapters / Capitole în cărți**

1. Breunig, H.; Raț, C. I. In *Comprehensive Inorganic Chemistry II*, 2<sup>nd</sup> ed.; Jan Reedijk, E., Poeppelmeier, K., Eds.; Elsevier: Amsterdam, **2013**; pp 151–178.  
DOI: 10.1016/B978-0-08-097774-4.00107-8

**B. Scientific articles / Articole științifice**

1. [Ag(EtOH){Ph<sub>3</sub>Bi[O(O)CC<sub>5</sub>H<sub>4</sub>N-3]<sub>2</sub>}(ClO<sub>4</sub>)]·CHCl<sub>3</sub> – A coordination polymer based on a divergent, ditopic metalloligand.  
Ben Kiran, A.; Silvestru, A.; Raț, C. I.; Silvestru, C.  
*Rev. Roum. Chim.* **2023**, *68*, 127-137.  
DOI: 10.33224/rrch.2023.68.3-4.02
2. Crystal structure and hirshfeld surface analysis of (*Z*)-2-phenyl-4-((4,6,8-trimethylazulen-1-yl)methylene)oxazol-5(4*H*)-one.  
Răducă, M.; Raț, C. I.; Cristea, M.  
*Rev. Roum. Chim.* **2022**, *67*, 591–596.  
DOI: 10.33224/rrch.2022.67.10-12.08
3. Synthesis and characterization of [4-{(CH<sub>2</sub>O)CH}C<sub>6</sub>H<sub>4</sub>]<sub>2</sub>Hg, [4-(O=CH)C<sub>6</sub>H<sub>4</sub>]<sub>2</sub>Hg and [(*E*)-4-(RN=CH)C<sub>6</sub>H<sub>4</sub>]<sub>2</sub>Hg (R=2'-py, 4'-py, 2'-pyCH<sub>2</sub>, 4'-pyCH<sub>2</sub>).  
Kiss, L.; Pop, A.; Shova, S.; Raț, C. I.; Silvestru, C.  
*Appl. Organomet. Chem.* **2021**, *35*, e6339.  
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4. Bulky Polyfluorinated Terphenyldiphenylboranes: Water Tolerant Lewis Acids.  
Stoian, C; Olaru, M.; Cucuiet, T. A.; Kegyes, K. T.; Sava, A.; Timoshkin, A. Y.; Raț, C. I.; Beckmann, J.  
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5. Molecular structures of (2-bromophenyl)diphenylstibane and {2'-bromo-[1,1'-biphenyl]-2-yl}diphenylstibane.  
Olaru, M.; Kegyes, K. T.; Raț, C. I.  
*Rev. Roum. Chim.* **2020**, *65*, 719-724.  
DOI: 10.33224/rrch.2020.65.7-8.10
6. New hypercoordinated organoantimony(V) bromides. Synthesis and structural characterization.  
Denes, E.; Lindorfer, C.; Dragomir, L.; Raț, C. I.; Silvestru, A.  
*Rev. Roum. Chim.* **2020**, *65*, 587-593.  
DOI: 10.33224/rrch.2020.65.6.09
7. 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>]SbL (L = Cl, ONO<sub>2</sub>, OSO<sub>2</sub>CF<sub>3</sub>). Synthesis, structure and catalytic behaviour in the Henry reaction.  
Șuteu, R.; Raț, C. I.; Silvestru, C.; Simion, A.; Candu, N.; Pârvulescu, V. I.; Silvestru, A.  
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8. Lead(II) Siloxides.  
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9. C-H Bond Activation Mediated by Inorganic and Organometallic Compounds of Main Group Metals.  
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10. Synthesis and characterization of diorganoantimony(III) and -bismuth(III) halides with 2-(Et<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> and 2-(*i*-Pr<sub>2</sub>NCH<sub>2</sub>)C<sub>6</sub>H<sub>4</sub> substituents.  
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11. Heterocyclic bismuth(III) compounds with transannular N→Bi interactions as catalysts for the oxidation of thiophenol to diphenyldisulfide.  
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13. Synthesis and structure of [Na(15-crown-5)][Ph<sub>2</sub>P(S)OB(C<sub>6</sub>F<sub>5</sub>)<sub>3</sub>] and [Na(15-crown-5)<sub>2</sub>][Ph<sub>2</sub>P(S)O · · HO(S)PPh<sub>2</sub>].

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19. A general route to monoorganopnicogen(III) (M = Sb, Bi) compounds with a pincer (N,C,N) group and oxo ligands.

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Șolea, A. B.; Olaru, M.; Silvestru, C.; Raț, C. I.

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Rat, C. I.; Silvestru, C.; Breunig, H. J.

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*Acta Crystallogr., Sect. E: Struct. Rep. Online* **2011**, *67*, o213.

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*Organometallics* **2009**, 28, 1202-1211.

DOI: 10.1021/om800934c

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Breunig, H. J.; Borrmann, T.; Lork, E.; Moldovan, O.; Raț, C. I.; Wagner, R. P.

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Balázs, L.; Breunig, H. J.; Lork, E.; Raț, C. I.

*Appl. Organomet. Chem.* **2005**, *19*, 1263-1267.

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*Inorg. Chim. Acta* **2004**, *357*, 3595-3602.

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