



Curriculum Vitae

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Data și locul nașterii	01.01.1951 ,Izvoarele- Giurgiu.
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Titlul științific	Doctor
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Domenii de cercetare:

- *Dezvoltarea unor abordari sistematice a design-ului complexilor noi, ca potientiale medicamente ;
- *Chelati simpli si complexi cu activitate biologica
- *Termocromismul compusilor anorganici, proprietati electrice ;
- *Variatia mobilitatii diferitilor ioni metalici în diferite structuri cristaline functie de presiune ;
- *Studiul compusilor anorganici cu geometrie bipiramidal trigonala ;
- *Dezvoltarea modelului celular al câmpului liganzilor si aplicarea acestui model la diferite tipuri de structuri cristaline ;

Cărți

- 1.Tudor Rosu, Maria Negoiu, **1999**, *Bazele Chimiei Anorganice.Orbitali.Legatura chimica*. Editura Universitatii din Bucuresti-Ars Docendi, pg.250, ISBN 973-99407-5-7.
2. Niculae Popa, Tudor Rosu, **2001** *Chimie Anorganica- partea I-*, Editura Universitatii din Bucuresti, pg.400 , ISBN 973 -575 -571 -8
- 3.Maria Negoiu, T. Rosu , **2002**, *SULFUL*, pg .268, Editura Universitatii din Bucuresti-Ars Docendi ,ISBN 973 -558 - 005 - 5
4. Tudor Rosu, Niculae Popa, Elena Mihaela Pahontu; *Notiuni, Concepte, Legi si Teorii in Chimia Anorganica*, Editura Universitara "Carol Davila" Bucuresti, **2011**, ISBN 978-973-708-538-2

Articole principale :

1. Synthese und Kristallstruktur von bis(1,2-dimethyl-5-nitroimidazol)dichloro -cobalt(II), T. Rosu, M. Negoiu, I. Strenger, U. Muller, Z. Anorg Allg. Chem. **1997**, nr.623, pg.1201-12028
2. Some new *N*-Benzoyl-*N'*-substituted phenylthioureas complexes of copper(II), T. Rosu, V. Cârçu, M. Negoiu, O. Maior, N. Badicu, South. Braz. J. Chem. **1997**, 5(5), pg. 43-49
3. *Caracterisation de complexes de Vanadium(III) presentant une geometrie de bipyramide-trigonale* M. Gavrila-Handrea, T. Rosu, M. Negoiu, J. Chim. Phys(Fr). **1999** nr.96, pg. 245-258
4. *Structure of cis-bis(2,2'-bipyridil)-dichloro-cobalt(II) chloride dihydrate*, I. Strenger, T. Rosu, M. Negoiu, Z. Kristallogr.-New Cryst. Str. **2000**, 215, pg. 489-490
5. *Synthesis, characterization of N-Benzoyl-N'-2-Nitro-4-methoxyphenil-Thiourea with Cu(II), Ni(II), Pt(II), Pd(II), Cd(II) and Hg(II)*, M. Negoiu, V. Cârçu, T. Rosu, S. Serban, J. Thermal Analysis and Calorimetry, **2000**, vol. 61, pg. 935-945
6. *Synthesis and EPR characterization of a series of Cu(II) complexes with 2,2'-diamino-4,4'-bithiazole and 2,2'-bisacetamido-4,4'-bithiazole* V. Cârçu, M. Negoiu, T. Rosu, L. Stoicescu, R. Georgescu, Synth. React. Inorg.-Met. Org. Chem., **2000**, 30(9), pg.1653-1666
7. **Tudor Roșu**, Elena Pahonțu, Réka-Ștefana Mezey, Diana-Carolina Ilieș, Rodica Georgescu, Sergiu Shova, Aurelian Gulea; Synthesis, structural and spectral studies of Cu(II) and V(IV) complexes of a novel Schiff base derived from pyridoxal. Antimicrobial activity; *Polyhedron*, **2012**, 31, 352.
8. Pahontu Elena, Julea Felicia, **Rosu Tudor**, Purcarea Victor, Chumakov Yurie, Petrenco Petru, Gulea Aurelian; Antibacterial, antifungal and in vitro antileukemia activity of complexes with thiosemicarbazones; *Journal of Cellular and Molecular Medicine*, **2015**, 19, 4, 865-878. (FI=5,2).
9. Elena Pahonțu, Diana-Carolina Ilieș, Sergiu Shova, Codruța Paraschivescu, Mihaela Badea, Aurelian Gulea, **Tudor Roșu**; Synthesis, Characterization, Crystal Structure and Antimicrobial Activity of Copper(II) Complexes with the Schiff Base Derived from 2-Hydroxy-4-Methoxybenzaldehyde; *Molecules* **2015**, 20, 5771-5792 (FI = 2,416)
10. Diana-Carolina Ilieș, Sergiu Shova, Valeria Radulescu, Elena Pahontu, **Tudor Rosu**; Synthesis, characterization, crystal structure and antioxidant activity of Ni(II) and Cu(II) complexes with 2-formilpyridine N(4)-phenylthiosemicarbazone; *Polyhedron* **2015**, 97, 157-166 (FI=2,011).
11. Reka-Ștefana Mezey, István Máthé, Sergiu Shova, Maria-Nicoleta Grecu, **Tudor Roșu** Synthesis, characterization and antimicrobial activity of copper(II) complexes with hydrazone derived from 3-hydroxy-5-(hydroxymethyl)-2-methylpyridine-4-carbaldehyde *Polyhedron* **2015**, 102, 684-692.
12. Diana-Carolina Ilieș, Traian Zaharescu, **Tudor Rosu**; Thermal and spectroscopic analysis of stabilization effect induced by copper complexes in EPDM; *Journal of Thermal Analysis and Calorimetry*. **2016**, 123, 231 - 239, (FI = 2,042), [Doi 10.1007/s10973-015-4893-5](https://doi.org/10.1007/s10973-015-4893-5).

13. Elena Pahonțu , Codruța Paraschivescu , Diana-Carolina Ilieș , Donald Poirier , Camelia Oprean , Virgil Păunescu , Aurelian Gulea , **Tudor Roșu** and Ovidiu Bratu; Synthesis and Characterization of Novel Cu(II), Pd(II) and Pt(II) Complexes with 8-Ethyl-2-hydroxytricyclo(7.3.1.0^{2,7})tridecan-13-one-thiosemicarbazone: Antimicrobial and *in Vitro* Antiproliferative Activity; *Molecules* **2016**, 21(5), 674; doi:[10.3390/molecules21050674](https://doi.org/10.3390/molecules21050674)

14. Reka-Ștefana Mezey, Traian Zaharescu, Marius Eduard Lungulescu, Virgil Marinescu, Sergiu Shova, **Tudor Roșu**; Structural characterization and thermal behaviour of some azomethine compounds derived from pyridoxal and 4-aminoantipyrine; *J Therm Anal Calorim* **2016**, 126,1763.

Comunicări științifice:

1. *Synthesis, spectral characterization and structure of some novel copper(II) complexes with thiosemicarbazones derived from pyridoxal*, Reka-Ștefana Mezey, Modrea Valentina Mihaela, Aurelian Gulea, Tudor Roșu. International Conference „Physical Methods in Coordination and Supramolecular Chemistry” XVIIIth ed., **2015**, Chișinău, Moldova (poster).

2. *Synthesis, characterization and antimicrobial activity of the ligand pyridoxal isonicotinoyl hydrazone and corresponding copper(II) complexes as potential antibacterial agents*, Réka-Ștefana Mezey, István Máthé, Tudor Roșu. Congresul Universității de Medicină și Farmacie Carol Davila București, ed. III, **2015**, București (poster).

3. *Novel copper(II) complexes derived from azomethine type ligands containing a pyridoxal moiety: Synthesis, structure and spectral characterization*, Reka-Ștefana Mezey, Cătălin Maxim, Tudor Roșu. Sesiunea de Comunicări Științifice Studentești ed. XI. 2015, București.

4. *Metal complexes of novel azomethine compounds derived from antipyrine and pyridoxal – synthesis, structural characterization and biological activity*, Réka-Ștefana Mezey, Tudor Roșu, Elena Pahonțu, Diana-Carolina Ilieș, Sergiu Shova, Rodica Georgescu. Simpozionul Aniversar „Facultatea de Chimie – 150 de ani de tradiție”, Sesiunea Festivă a Școlii Doctorale în Chimie, 2014, București.

5. *The impact of the ligands on the geometry of the metals ions*, T. Rosu, Maria, Negoiu, Teodora Ruse, **13th**Romanian International Conference on Chemistry and Chemical Engineering Inorganic Chemistry Bucuresti, **2003**, Vol. 1 pg. 41 – 49(poster)

6. *Synthesis of some Co(II), Ni(II) and Cu(II), complexes by using new derivatives of coumarine*. T. Rosu, M. Negoiu, V. Cârca , L. Stoicescu **12th**Romanian International Conference on Chemistry and Chemical Engineering Inorganic Chemistry, Bucuresti, **2001**, Vol. 1,336-344,(poster)

7. *The impact of the organic cation on the geometry of the [CuCl₄]²⁻ and [ZrCl₆]²⁻* T. Rosu , Maria Negoiu , V. Carcu The 2nd International Conference of the Chemical Societies of the South East European Countries **2000** Thesaloniki - Grecia (poster)

8. *Complex Compounds of Cu(II), Ni(II) and Co(II). Thermal and electrical properties.*

T. Rosu, Maria Negoiu The XIIIth Conference "Physical Methods in Coordination and Supramolecular Chemistry"**1999**, Chisinau, Republica Moldova (poster)