

**LISTA PUBLICATIILOR/Publications List**

**A. TEZA DE DOCTORAT/PhD Thesis**

1. Ferbinteanu, M. *Coordination compounds with thermochromic properties*, University of Bucharest, 1998, supervisor Acad. Prof. Dr. Maria Brezeanu

**B. CARTI/Books**

5. Putz, M.V.; Cimpoesu, F.; Ferbinteanu, M. *Structural Chemistry Principles, Methods, and Case Studies*, Springer, 2018, 800p. (ISBN 978-3-319-55873-8)

4. Calinescu, M.; Ferbinteanu, M.; Popescu, D. L.; Ilis, M.V.,  
*Lucrari practice si probleme de chimie* (rom),  
Ed. Ars Docendi, Bucharest, 2010 ( ISBN 978-973-558-474-0, experimental works guide).  
(english translation: *Experiments and exercises in general chemistry*).

3. Ferbinteanu, M.; Cimpoesu, F.  
*Combinatii complexe cu proprietati speciale*. (rom.)  
Editura Universitatii, Bucharest, 2003, (ISSN 973-575-674-9).  
(english translation: *Inorganic compound with special properties. Thermochromism, magnetism*).  
Key Words: Chromotropism of coordination complex, Molecular Magnets, Vibronic Interactions, Polynuclear complex.

2. Ferbinteanu, M.; Cimpoesu, F.  
*Aspecte teoretice si practice in chimia clusterilor, polimerilor si ciclurilor anorganice*. (rom.)  
Editura Universitatii, Bucharest, 2002 (ISSN 973-575-672-2).  
(english translation: *Particular aspects of the clusters, polymers and inorganic rings chemistry*).  
Key Words: Electronegativity, Hardness, DFT-calculation, Hybridization, Tridimensional Aromaticity, Graph Theory, Tensor Surface Harmonics Theory.

1. Antoniu A, Cimpoesu, M.; Andruh, M.; Cristurean, E.  
*Sinteze în chimia compusilor metal-organici și în chimia heterociclurilor anorganice*, (rom.)  
Ed. Univ.Bucuresti, 1995 (ISSN 973-9160-80-8, experimental works guide).

### C. CAPITOLE IN CARTI SI VOLUME/Chapters in books and volume

4. Ferbinteanu, M.; Buta, C.; Toader, A.M.; Cimpoesu, F.

*The Spin Coupling in the Polyaromatic Hydrocarbons and Carbon-based Materials*  
In *Carbon-related Materials in Recognition of Nobel Lectures by Prof. Akira Suzuki in ICCE*,  
Eds. S. Kaneko, P. Mele, T. Endo, T. Tsuchiya, K. Tanaka, M. Yoshimura, D. Hui, Springer  
International Publishing, 2017, Chapter 14, p327-371, ISBN 978-3-319-61651-3, DOI  
10.1007/978-3-319-61651-3.

(prim autor)

3. Ferbinteanu, M.; Ramanantoanina, H.; Cimpoesu, F.

Bonding mechanisms and causal relationships with magnetic properties in extended coordination  
systems: Case studies in the challenge of property design at nanoscale , IGI publisher, Volume  
Title: Sustainable Nanosystems Development, Properties, And Applications, Volume Editors:  
Mihai V. Putz & Marius C. Mirica, 2017, Chapter 5, p.148-284. ISBN13: 9781522504924  
DOI: 10.4018/978-1-5225-0492-4

(prim autor)

2. Ferbinteanu, M; Cimpoesu, F.; Tanase, S.

*Metal-Organic Frameworks with d-f Cyanide Bridges: Structural Diversity, Bonding Regime,  
and Magnetism*,  
in *Lanthanide Metalorganic Frameworks*, Ed. Peng Cheng,  
*Structure and Bonding* **2015**, 163, 185-229,

ISBN: 978-3-662-45772-6 (Print) 978-3-662-45773-3 (Online)

DOI: 10.1007/430\_2014\_156M, WOS:000348907100007

(prim autor)

1. Cimpoesu, F.; Ferbinteanu, M.,

*Magnetic Anisotropy in Case Studies*, Chapter 7 in  
*Quantum Nanosystems. Structure, Properties, and Interactions*, Apple Academics, Ontario-New  
Jersey, Canada-USA, **2014**, 524 pp.; ISBN: 978-1-926895-90-1

<http://www.appleacademicpress.com/title.php?id=9781926895901>

(autor principal)

### D. CAPITOLE IN MONOGRAFII/Chapters in monographies and proceeding volume

7. Ferbinteanu, M. *The song of coordination spheres. Synthesis, structure and special properties  
of molecular and supramolecular complex compounds*,

in *Promovarea dezvoltării durabile în spațiul dunărean prin cooperare culturală și științifică: Humboldt-Kolleg. Cluj-2010*, Editura Mediamira Cluj, Romania, **2010**, 203-208 (ISBN 978-973-713-276-5).

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6. Cimpoesu, F.; Ferbinteanu, M.; Mihai, A.; Humelnicu, I. *The Symmetry blueprints of the molecular edifices, Symmetry: culture and science* **2008**, *19*, 397-414, Special Issue: *Nanostructures in general chemistry*. (ISSN 0865-4824)

5. Ferbinteanu, M.; Cimpoesu, F.

*Nanostructured magnetic material. Synthetic, physical and theoretical chemistry approach, from design to application*, în *Progress in Nanoscience and Nanotechnologies*, Ed. I. Kleps, A. C. Ion, D. Dascălu, Editura Academiei Române, București, 2007, 78-89 (ISBN 978-973-27-1576-5)

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4. Ferbinteanu, M.; Cimpoesu, F.; Wang, S.; Yamashita, M. *Tuning and Understanding The single Molecule and Single chain Magnet behaviour in new series of d and d-f complexes*, in *Achievements in Coordination, Bioinorganic and Applied Inorganic Chemistry*, Ed. M. Melník, J. Šima, and M. Tatarko Slovak Technical University Press, Bratislava, 2007, 66-73 (ISBN 978-80-227-2647-4).

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3. Miyamoto, K.; Ferbinteanu, M.; Tanase, S.; Tanaka, T.; Horn, E.; Fukuda, Y. *Special structural features of chelating nitrite and -diketonate ligands in new nickel(II) mixed ligand complexes*, in *Progress in Coordination and Bioinorganic Chemistry*, Ed. M. Melník, A. Sirota, Slovak Tech. Univ. Press, Bratislava, 2003, 21-26 (ISBN 80-227-1891-2).

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2. Ferbinteanu, M.; Cimpoesu, F.; Roesky, H. W.; Bai, G.; Moesch-Zanetti, N. C. *Perspectives of the Bonding Effects in New Titanium-nitrogen Coordination Compounds*, in *Challenges for Coordination Chemistry in the New century*, Ed. M. Melník, A. Sirota, Slovak Tech. Univ. Press, Bratislava, 2001, 127-132 (ISBN 80-227-1539-2).

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1. Ferbinteanu, M.; Cimpoesu, F.; Tanase, S.; Andruh, M. *On the thermochromic properties of the complex cation-complex anion type coordination compounds*, in *Coordination Chemistry at the Turn of the Century*, Ed. G. Ondrejovic, A. Sirota, Slovak Tech. Univ. Press, Bratislava, 1999, 153-158 (ISBN 80-227-1225-6).

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## E. ARTICOLE/Papers (ISI)

85. Draoui, Y.; Radi, S.; El Massaoudi, M.; Bahjou, Y.; Ouahhoud, S.; Mamri, S.; Ferbinteanu, M.; Benabbes, R.; Wolff, M.; Robeyns, K.; Garcia, Y.,  
*Coordination Complexes Built from a Ditopic Triazole-Pyrazole Ligand with Antibacterial and Antifungal Performances*,  
*Molecules* **2023**, 28(19), Article Number: 6801, 14 pg. DOI10.3390/molecules28196801. F.I.=4.6
84. Kang, H.P.; Zhou, H.C.; Tang, X.; Liu, C.; Li, Y.H.; Zhang, H.Z.; Su, J.; Ferbinteanu, M.; Wu, H.Y.; Wang, S.,  
*An AIE-active tetraphenylethene functionalized silver-tetrazolate coordination polymer for selective fluorescence sensing of explosives*,  
*CRYSTENGCOMM* **2023**, 25(29), 4231-4237. DOI:10.1039/d3ce00598d. F.I.=3.1
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*Mud and burnt Roman bricks from Romula*,  
*Scientific Reports* **2022**, 12, Article number 15864, 25pg. DOI:10.1038/s41598-022-19427-7. F.I.=4.99.
82. Tighadouini, S.; Roby, O.; Mortada, S.; Lakbaibi, Z.; Radi, S.; Al-Ali, A.; Faouzi, M. E.; Ferbinteanu, M.; Garcia, Y.; Al-Zaqri, N.; Zarrouk, A.; Warad, I.  
*Crystal structure, physicochemical, DFT, optical, keto-enol tautomerization, docking, and anti-diabetic studies of (Z)-pyrazol beta-keto-enol derivative*  
*J. Mol. Struct.* **2022**, 1247, Art. No.:131308. DOI:10.1016/j.molstruc.2021.131308. F.I.=3.196
81. Tudor, C. A.; Iiis, M.; Secu, M.; Ferbinteanu, M.; Circu, V.  
*Luminescent heteroleptic copper(I) complexes with phosphine and N-benzoyl thiourea ligands: Synthesis, structure and emission properties*  
*Polyhedron* **2022**, 211, Art. No.:115542. DOI10.1016/j.poly.2021.115542. F. I.=3.052
80. Toader, A. M.; Buta, M. C.; Cimpoesu, F. Toma, A. I.; Zalaru, C. M.; Cinteza, L. O.; Ferbinteanu, M.  
*New Syntheses, Analytic Spin Hamiltonians, Structural and Computational Characterization for a Series of Tri-, Hexa- and Hepta-Nuclear Copper (II) Complexes with Prototypic Patterns*  
*CHEMISTRY-SWITZERLAND* **2021**, 3(1), 411-439. DOI:10.3390/chemistry3010031.
79. Tanase, M. A.; Soare, A. C.; Oancea, P.; Raducan, A.; Mihaescu, C. I.; Alexandrescu, E.; Petcu, C.; Ditu, L. M.; Ferbinteanu, M. ; Cojocar, B.; Cinteza, L. O.  
*Facile In Situ Synthesis of ZnO Flower-like Hierarchical Nanostructures by the Microwave Irradiation Method for Multifunctional Textile Coatings*.

NANOMATERIALS **2021**, 11(10), Art. No: 2574. DOI: 10.3390/nano11102574. F.I. =5.076

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*(4,5,8)-Connected Cationic Coordination Polymer Material as Explosive Chemosensor Based on the in Situ Generated AIE Tetrazolyl-Tetraphenylethylene Derivative*

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77. Ben Uliel, T.; Farber, E. M.; Aviv, H.; Stroek, W.; Ferbinteanu, M.; Tischler, Y. R.; Eisenberg, D. *Combining polarized low-frequency Raman with XRD to identify directional structural motifs in a pyrolysis precursor*

*Chem. Comm.* **2021**, 57(57), 7015-7018. DOI:10.1039/d1cc00420d. F.I. =6.222

76. Karrouchi, K.; Brandan, S. A.; Hassan, M.; Bougrin, K.; Radi, S.; Ferbinteanu, M.; Garcia, Y.; Ansar, M.

*Synthesis, X-ray, spectroscopy, molecular docking and DFT calculations of (E)-N'-(2,4-dichlorobenzylidene)-5-phenyl-1H-pyrazole-3-carbohydrazide*

*J. Mol. Struct.* **2021**, 1228, Art. No.:129714. DOI:10.1016/j.molstruc.2020.129714. F.I.=3.196

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*Synthesis, structural, molecular docking and spectroscopic studies of (E)-N'-(4-methoxybenzylidene)-5-methyl-1H-pyrazole-3-carbohydrazide*

*J. Mol. Struct.* **2021**, 1225, Art. No.: 129072. DOI:10.1016/j.molstruc.2020.129072. F. I.=3.196

74. Stanescu, M.D.; Stefanov, C.; Albota, F.; Hirtopeanu, A.; Oprea, O.C.; Stanica, N.; Ferbinteanu, M.

*Synthesis and structural analysis of complexes based on  $\alpha$ -amino ketone derived from benzimidazole.*

*J. Mol. Struct.* **2021**, 1228, Art. No.: 129716. <https://doi.org/10.1016/j.molstruc.2020.129716>

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*Synthesis, X-ray structure, vibrational spectroscopy, DFT, biological evaluation and molecular docking studies of (E)-N'-(4-(dimethylamino)benzylidene)-5-methyl-1H-pyrazole-3-carbohydrazide,*

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*Efficient and Environmentally Friendly Adsorbent Based on beta-Ketoenol-Pyrazole-Thiophene for Heavy-Metal Ion Removal from Aquatic Medium: A Combined Experimental and Theoretical Study,*

*ACS OMEGA* **2020**, 5(28), 17324-17336. DOI: 10.1021/acsomega.0c01616. F.I.=2.87

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*New Substituted Benzoylthiourea Derivatives: From Design to Antimicrobial Applications*,  
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*Experimental and computational characterization of structural and spectroscopic features of mixed ligand copper complexes-prototypes for square-pyramidal stereochemistry*,  
*Polyhedron* **2019**, *170*, 771-782, DOI: 10.1016/j.poly.2019.06.046.F.I.=2.28
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Highly Selective Removal of Pb(II) by a Pyridylpyrazole-beta-ketoenol Receptor Covalently Bonded onto the Silica Surface,  
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*Dalton Trans.*, **2018**, *47*(30), 10071-10079. DOI: 10.1039/c8dt02177e, F.I.=4.099
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