

CURRICULUM VITAE

PERSONAL INFORMATION

21.01.1993, București, România

3 Popisteanu street, Bucharest, 012092, Romania

+40 728 986 410; fiidemn@gmail.com, mihai.raduca@icoscdn.ro

EDUCATION

- 2018 – present: PhD student, Doctoral School in Chemistry, University of Bucharest
- 2016 – 2018: master, Faculty of Orthodox Theology, University of Bucharest
- 2015 – 2017: master, Faculty of Chemistry, University of Bucharest
- 2012 – 2015: bachelor, Faculty of Chemistry, University of Bucharest
- 2008 – 2012: „Alexandru Ioan Cuza” Theoretical High School, Bucharest

TRAINING

- 2025 - Erasmus+ traineeship – MOLTECH, Angers, Franța
- 2024 - Rigaku School for Practical Crystallography
- 2020 - Erasmus+ traineeship – Laboratoire de Chimie de Coordination, Toulouse, Franța
- 2017 – internship – Institutul de Chimie Fizică „Ilie Murgulescu”
- 2017 – volunteer - 6th European Conference on Molecular Magnetism (ECMM2017)
- 2016 - Erasmus+ traineeship – Aristotle University of Thessaloniki, Greece
- 2015 - internship – Microsin SRL
- 2014 - internship – S.C. Hofigal Export-Import S.A.

WORK EXPERIENCE

- 2021 – present: Research Assistant - „C. D. Nenitzescu” Institute of Organic and Supramolecular Chemistry of the Romanian Academy, Splaiul Independentei 202 B, 060023, Bucharest, Romania

RESEARCH PROJECTS

- 2025 – present: Research Assistant – UEFISCDI, Project PN-IV-P1-PCE-2023-0267, within PNCDI IV;

- 2024 – present: Research Assistant - European Union through NextGeneration EU-PNRR-III-C9-2022-I8 program (contract no 760230);
- 2018 – 2022: Research Assistant – UEFISCDI, Project PN-III-P4-ID-PCCF-2016-0088, 1/2018;
- 2017 – 2019: Research Assistant – UEFISCDI, Project PN-III-P4-ID-PCE-2016-0442, 89/2017.

SCIENTIFIC PUBLICATIONS

30. Functionalization of nitronyl-nitroxide ligands via Schiff condensations. Rational synthesis of binuclear complexes with bis-nitronyl-nitroxide ligands, **Mihai Răducă**, Luca M. Carrella, Gabriela Ionita, Alexandru-Tudor Toderașc, Eva Rentschler, Marius Andruh, *Crystal Growth & Design*, **2025**, <https://doi.org/10.1021/acs.cgd.5c01224>

29. Dielectric and electrical characteristics of a zinc-based hybrid mixed halide material for energy harvesting applications, Soumaya Sidaoui, Naoufel Ben Hamadi, Raja Jlassi, Abderrazek Oueslati, **Mihai Raduca**, Marius Andruh, Ahlem Guesmi, Wesam Abd El-Fattah, Walid Rekik, Houcine Naïli, *Journal of Materials Science: Materials in Electronics*, **2025**, *36*, 1504; <https://doi.org/10.1007/s10854-025-15596-z>

28. Diethyl 3-(4-bromobenzoyl)-7-(4-pyridyl)indolizine-1,2-dicarboxylate, Mihaela Cristea, **Mihai Răducă**, Maria Gdaniec, Sergiu Shova, Nicoleta Doriană Banu, Florea Dumitrascu, *Molbank*, **2025**, M2032; <https://doi.org/10.3390/M2032>

27. MONONUCLEAR AND BINUCLEAR NICKEL(II) COMPLEXES WITH A SCHIFF BASE LIGAND DERIVED FROM 2,3-DIHYDROXYBENZALDEHYDE, Diana-Ioana Eftemie, Teodora Mocanu, Diana Dragancea, **Mihai Răducă**, Marius Andruh, *Revue Roumaine de Chimie*, **2025**, *70*, 611, DOI: 10.33224/rch.2025.70.9-10.05

26. COORDINATION POLYMERS CONSTRUCTED FROM BINUCLEAR COPPER(II) CARBOHYDRAZONE NODES AND BIS(4-PYRIDYL) SPACERS, Natalia Talmaci, Teodora Mocanu, Sergiu Shova, **Mihai Răducă**, Diana Dragancea, Marius Andruh, *Revue Roumaine de Chimie*, **2025**, *70*, 443, DOI: 10.33224/rch.2025.70.7-8.08

25. (Z)-4-(azulen-1-ylmethylene)-2-phenyloxazol-5(4H)-one, Mihaela Cristea; Alexandru C. Razus; Sergiu Shova; Marcel Mirel Popa; **Mihai Raduca**; Florea Dumitrascu, *Molbank*, **2025**, *2025*, M2006, <https://doi.org/10.3390/M2006>

24. Crystal structure and Hirshfeld surface analysis of (Z)-4-((5-isopropyl-3,8-dimethylazulen-1-yl)methylene)-2-phenyloxazol-5(4H)-one, **Mihai Răducă**, Marcel Mirel Popa, Mihaela Cristea, Alexandru C Răzuș, Florea Dumitrașcu, *Revue Roumaine de Chimie*, **2025**, *70*, 345, DOI: 10.33224/rch.2025.70.5-6.11

23. HALOGEN-BONDED CO-CRYSTALS OF AZULENE-1-CARBOXALDEHYDE WITH PERFLUORINATED DIODOBENZENES, Andreea Dogaru, Adrian E. Ion, Andrei A. Patrascu, **Mihai Raduca**, Gheorghe Duca, Marius Andruh, Simona Nica, *Revue Roumaine de Chimie*, **2025**, *70*, 279, DOI: 10.33224/rch.2025.70.5-6.04

22. The role of hydrogen bond interactions in crystal formation of pyrrolo-azines alcohols, Marcel Mirel Popa, **Mihai Răducă**, Isabela C. Man, Florea Dumitrascu, *Crystals*, **2025**, *15*, 78, <https://doi.org/10.3390/cryst15010078>

21. A Cobalt(II)-nitronyl nitroxide single chain magnet with record blocking temperature and low coercivity, Thomaz de A. Costa, **Mihai Răducă**, Julio C. Rocha, Miguel A. Novak, Rafael A. A. Cassaro, Marius Andruh and Maria G. F. Vaz, *Inorganic Chemistry Frontiers*, **2025**, <https://doi.org/10.1039/D4QI02703E>
20. Luminescent tetranuclear zinc complexes constructed from a tetradentate Schiff base ligand derived from 2,3-dihydroxybenzaldehyde, Diana-Ioana Eftemie, Teodora Mocanu, Cristina Tablet, **Mihai Raduca**, Diana Dragancea, Marius Andruh, *Journal of Coordination Chemistry*, **2024**, <https://doi.org/10.1080/00958972.2024.2448517>
19. Synthesis, X-ray diffraction and computational drug-likeness evaluation of new pyrrolo[1,2-*a*][1,10]phenanthrolines bearing a 9-cyano group, Mihaela Cristea, Marcel Mirel Popa, Sergiu Shova, Maria Gdaniec, Amalia Stefaniu, Constantin Draghici, **Mihai Raduca**, Nicoleta Doriană Banu and Florea Dumitrascu, *Symmetry*, **2024**, *16*, 911, <https://doi.org/10.3390/sym16070911>
18. ALKYLATION OF MORPHOLINE WITH 2-(CHLOROMETHYL)-NITROXYL-NITROXIDE: A NEW LIGAND AND ITS NICKEL COMPLEX, Ștefan Dimitriu, **Mihai Răducă**, Victorița Tecuceanu, Anamaria Hanganu and Marius Andruh, *Revue Roumaine de Chimie*, **2024**, *69*, 279, DOI: 10.33224/rch.2024.69.5-6.05
17. Mixed-ligand mononuclear complexes obtained from salicylaldehyde and phenanthroline. Synthesis, crystal structures, and luminescence, Diana Dragancea, Teodora Mocanu, Daniel Avram, **Mihai Răducă**, Carmen Tiseanu, Marius Andruh, *Polyhedron*, **2024**, *252*, 116886, <https://doi.org/10.1016/j.poly.2024.116886>
16. Synthesis, crystal structure and photoluminescent properties of novel 9-cyano-pyrrolo[1,2-*a*][1,10]phenanthrolines, Mihaela Cristea, **Mihai Răducă**, Sergiu Shova, Constantin Drăghici, Vlad A. Neacșu, Maria Maganu, Loredana Albotă (Barbu), Denisa Dumitrescu and Florea Dumitrascu, *Crystals*, **2024**, *14*, 67, <https://doi.org/10.3390/cryst14010067>
15. SYNTHESSES AND CRYSTAL STRUCTURES OF YTTRIUM AND DYSPROSIUM TETRAKIS(HEXAFLUOROACETYLACETONATO) WITH TRIETHYLAMMONIUM COUNTERION, **Mihai Răducă**, Marius-Mihai Zaharia and Marius Andruh, *Revue Roumaine de Chimie*, **2023**, DOI: 10.33224/rch.2023.68.5-6.03
14. Halogen bonded supramolecular assemblies constructed from azulene containing tectons and diiodofluorobenzenes, Andreea Dogaru, Adrian Apostol, Catalin Maxim, **Mihai Raduca**, Alexander S. Novikov, Alina Nicolescu, Calin Deleanu, Simona Nica and Marius Andruh, *CrystEngComm*, **2023**, <https://doi.org/10.1039/D3CE00752A>
13. Crystal structure, thermal behavior and electric properties of a new semiconductor cobalt-based hybrid material. Soumaya Sidaoui, Arafet Ghoudi, Abderrazek Oueslati, **Mihai Raduca**, Mihaela Badea, Marius Andruh, Samia Nasr, Houcine Naili, Walid Rekik, *Journal of Molecular Structure*, **2023**, <https://doi.org/10.1016/j.molstruc.2023.136394>
12. Luminescent La³⁺, Eu³⁺ and Tb³⁺ mononuclear complexes with a Schiff base tripodal ligand derived from 9-anthracenecarboxaldehyde, Ana Diana Popa, **Mihai Răducă** and Augustin M. Mădălan, *Polyhedron*, **2023**, <https://doi.org/10.1016/j.poly.2023.116441>
11. CRYSTAL STRUCTURE AND HIRSHFELD SURFACE „ANALYSIS OF (Z)-2-PHENYL-4-((4,6,8-TRIMETHYLAZULEN-1-YL)METHYLENE)OXAZOL-5(4H)-ONE, **Mihai Răducă**, Ciprian I. Raț, and Mihaela Cristea, *Revue Roumaine de Chimie*, **2022**, DOI: 10.33224/rch.2022.67.10-12.08

10. Synthesis, crystal structure, and optical properties of a trinuclear zinc(II) complex with Rhodamine B., **Mihai Răducă**, Sorana Ionescu and Augustin M. Mădălan, *Crystals*, **2022**, *12*, 1813, <https://doi.org/10.3390/cryst12121813>
9. Antitumor Properties of a New Macrocyclic Tetranuclear Oxidovanadium(V) Complex with 3-Methoxysalicylidervaline Ligand, Mihaela Turtoi, Maria Anghelache, Andrei A. Patrascu, Mariana Deleanu, Geanina Voicu, **Mihai Raduca**, Florentina Safciuc, Ileana Manduteanu, Manuela Calin and Delia-Laura Popescu, *Biomedicines*, **2022**, *10*(6), 1217, <https://doi.org/10.3390/biomedicines10061217>
8. A New Nitronyl-Nitroxide Ligand for Designing Binuclear Ln^{III} Complexes: Syntheses, Crystal Structures, Magnetic and EPR Studies, **Mihai Răducă**, Daniel O. T. A. Martins, Cristian A. Spinu, Mihaela Hillebrand, Floriana Tuna, Gabriela Ionita, Augustin M. Mădălan, Constance Lecourt, Jean-Pascal Sutter, Marius Andruh, *Eur. J. Inorg. Chem.*, **2022**, <https://doi.org/10.1002/ejic.202200128>
7. Cocrystals versus Salts of Fluorescein, **M. Răducă**, A. M. Mădălan, *Crystals*, **2021**, *11*, 1217, <https://doi.org/10.3390/cryst11101217>
6. Synthesis, crystal structure, magnetic, spectroscopic, and theoretical investigations of two new nitronyl-nitroxide complexes, C. A. Spinu, C. Pichon, G. Ionita, T. Mocanu, S. Calancea, **M. Răducă**, J.-P. Sutter, M. Hillebrand, M. Andruh, *Journal of Coordination Chemistry*, **2021**, *74*, 279; <https://doi.org/10.1080/00958972.2021.1871900>
5. Magnetic Molecular Rectangles Constructed from Functionalized Nitronyl-Nitroxide Ligands and Lanthanide(III) Ions, S. Calancea, L. Carrella, T. Mocanu, V. Sadohin, **M. Răducă**, I. Gutu, J. C. da Rocha, M. G. F. Vaz, E. Rentschler, M. Andruh, *Eur. J. Inorg. Chem.*, **2021**, *6*, 567; <https://doi.org/10.1002/ejic.202000954>
4. Zinc(II) mononuclear complexes with Schiff base derivatives of 2-aminofluorene. Synthesis, structural characterization, and optical properties, M. Strinoiu, **M. Răducă**, A. M. Mădălan, *J. Coord. Chem.*, **2020**, *73*, 2786, <https://doi.org/10.1080/00958972.2020.1830977>
3. SYNTHESIS, CRYSTAL STRUCTURES AND SOLID-STATE OPTICAL PROPERTIES OF TWO MANNICH DERIVATIVES OF 2',7'-DICHLOROFLUORESCEIN, **M. Răducă**, A. M. Mădălan, *Revue Roumaine de Chimie*, **2020**, *65*, 617, DOI: 10.33224/rch.2020.65.6.13
2. SYNTHESIS, STRUCTURE AND LUMINESCENT PROPERTIES OF A MONONUCLEAR ZINC(II) COMPLEX WITH A BICOMPARTMENTAL LIGAND, **M. Răducă**, A. M. Mădălan, *Studia Ubb Chemia*, **2019**, *3*, 193, DOI:10.24193/subbchem.2019.3.15
1. Coordination polymers and a dinuclear complex constructed from zinc(II) ions and fluorescein: iodine adsorption and optical properties, **M. Răducă**, C. D. Ene, S. Ionescu, M. Florea, A. M. Mădălan, *J. Coord. Chem.*, **2019**, *72*, 1222, <https://doi.org/10.1080/00958972.2019.1605442>

CONFERENCES AND SYMPOSIA

23. *Design of Chiral Paramagnetic Ligands and Complexes Based on Helicenes and Nitronyl Nitroxide Radicals*, **Mihai Răducă**, Symposium on chiral molecules and organic radicals, 30 June – 1 July 2025, București, Romania, oral presentation
22. *Sinteza de complecși 3d și 4f cu liganzi de tip radical nitronil nitroxid*, **Mihai Răducă**, Marius Andruh, *Zi De Chimie - Sesiune De Comunicări Științifice*, 16 October 2024, București, Romania, oral presentation

21. *From nitronyl nitroxides towards homo- and hetero-di-radicals used as ligands for the synthesis of 3d and 4f complexes*, **Mihai Răducă**, Marius Andruh, National Conference of Chemistry XXXVII Edition, 25-27 September 2024, Târgoviște, Romania, oral presentation
20. International Conference "Medicines between Information and Life Sciences" 23-24 September 2024, Bucharest, Romania
19. *The design of homo- and hetero-di-radicals as ligands for the synthesis of 3d and 4f complexes*, **Mihai Răducă**, Floriana Tuna, Marius Andruh, CoFRO: Coordination Chemistry between France and Romania, 2024, Rennes, Franța, oral presentation
18. *Radicali nitronil nitroxid utilizați pentru obținerea de homo- și hetero-di-radicali și combinațiile lor complexe*, **Mihai Răducă**, Conferința tinerilor cercetători din școlile de chimie bucureștene, București, 2024, oral presentation
17. *When a nitronyl nitroxide ligand meets amines to form Schiff bases. Ligands design and their complexes*, **Mihai Răducă**, David Hunger, Sergiu Shova, Marius Andruh, Macro Iași 2023, Iași, România, oral presentation
16. *When a nitronyl nitroxide ligand meets amines to form Schiff bases. Ligands design and their complexes*, **Mihai Răducă**, Marius Andruh, International Conference of Physical Chemistry – ROMPHYSHEM, București, România, oral presentation
15. *When a nitronyl nitroxide ligand meets amines to form Schiff bases. Ligands design and their complexes with 3d and 4f metal ions*, **Mihai Răducă**, David Hunger, Sergiu Shova, Marius Andruh, New Trend In Chemistry Research, Timișoara, România, oral presentation
14. *Nitronyl nitroxid ligands and Ln(III) complexes synthesized from 2,6-bis(hydroxymethyl)-p-cresol*, **Mihai Răducă**, Marius Andruh, Congress SCF 2023, Nantes, Franța, poster
13. *Binuclear complexes bearing paramagnetic compartmental ligands synthesized from 2,6-bis(hydroxymethyl)-p-cresol*, **Mihai Răducă**, Marius Andruh, ICMPP – Open Door To The Future Scientific Communications Of Young Researchers, Iași, România, oral presentation
12. *A new nitronyl-nitroxide ligand for designing binuclear Ln^{III} complexes: syntheses, crystal structures, magnetic and EPR studies*, **Mihai Răducă**, Daniel O. T. A. Martins, Cristian A. Spinu, Mihaela Hillebrand, Floriana Tuna, Gabriela Ionita, Augustin M. Mădălan, Constance Lecourt, Jean-Pascal Sutter, Marius Andruh, *Conferința Națională de Chimie*, ediția XXXVI-a, Căciulata, România, oral presentation
11. *„Sintetizând radicali nitronil nitroxid compartimentali și compuși binucleari de la 2,6-bis(hidroximetil)-p-crezol”*, **Mihai Răducă**, Simpozion 120 de ani de la nașterea Academicianului Costin D. Nenițescu, Academia Română, București, România, oral presentation
10. *A new nitronyl-nitroxide ligand for designing binuclear Ln^{III} complexes: syntheses, crystal structures, magnetic and EPR studies*, **Mihai Răducă**, Daniel O. T. A. Martins, Cristian A. Spinu, Mihaela Hillebrand, Floriana Tuna, Gabriela Ionita, Augustin M. Mădălan, Constance Lecourt, Jean-Pascal Sutter, Marius Andruh, *Romanian International Conference on Chemistry and Chemical Engineering*, ediția XXII-a, Sinaia, România, poster
9. *A new nitronyl-nitroxide ligand for designing binuclear Ln^{III} complexes: syntheses, crystal structures, magnetic and EPR studies*, **Mihai Răducă**, Daniel O. T. A. Martins, Cristian A. Spinu, Mihaela Hillebrand, Floriana Tuna, Gabriela Ionita, Augustin M. Mădălan, Constance Lecourt, Jean-Pascal Sutter, Marius Andruh, *European Conference on Molecular Magnetism*, ediția a VIII-a, Rennes, Franța, poster

8. *Synthesizing binuclear compounds using compartmental nitronyl-nitroxide paramagnetic ligand*, **Mihai Răducă**, Cristian A. Spinu, Mihaela Hillebrand, Gabriela Ionita, Augustin M. Mădălan, Jean-Pascal Sutter, Marius Andruh, Session of Student Scientific Communications, Faculty of Chemistry, University of Bucharest, Bucharest, Romania, oral presentation

7. *Complecși 3d și 4f cu derivați baze cu derivați baze cu derivați baze cu derivați baze*, **Mihai Răducă**, Augustin M. Mădălan, Marius Andruh, Conferința Națională a Școlilor Doctorale din Consorțiul Universitaria, Timișoara, România, oral presentation

6. *3d and 4f Complexes with Symmetrical and Asymmetrical Mannich Base Derivatives*, **Mihai Răducă**, Augustin M. Mădălan, Marius Andruh, 21st Romanian International Conference on Chemistry and Chemical Engineering, Mamaia, Romania, poster

5. *Two-Dimensional Coordination Polymers Using Lanthanide(III) Ions And Fluorescein Spacers*, **M. Răducă**, C. D. Ene, S. Ionescu, M. Florea, A. M. Mădălan, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor "CHIMIA - FRONTIERĂ DESCHISĂ SPRE CUNOAȘTERE", ediția a X-a, Iași, România, poster

4. *Coordination Polymers And A Dinuclear Complex Constructed From Zinc(II) Ions And Fluorescein. Iodine Adsorption*, **Mihai RĂDUCĂ**, Cristian D. ENE, Daniel AVRAM, Carmen TISEANU, Augustin M. MADALAN, Sesiunea de comunicări științifice a studenților, masteranzilor și doctoranzilor "CHIMIA - FRONTIERĂ DESCHISĂ SPRE CUNOAȘTERE", ediția a X-a, Iași, România, oral presentation

3. *Complecși 3d și 4f cu derivați baze Mannich simetrici și asimetrici*, **Mihai Răducă**, Augustin M. Mădălan, Marius Andruh, Session of Student Scientific Communications, 16th edition, Faculty of Chemistry, University of Bucharest, Bucharest, Romania, oral presentation

2. *Two-Dimensional Coordination Polymers Using Lanthanide(III) Ions And Fluorescein Spacers*, **M. Răducă**, C. D. Ene, S. Ionescu, M. Florea, A. M. Mădălan, International Conference of the Chemical Societies of the South-East European Countries, Târgoviște, poster

1. *Coordination Polymers And A Dinuclear Complex Constructed From Zinc(II) Ions And Fluorescein. Iodine Adsorption And Optical Properties*, **Mihai RĂDUCĂ**, Cristian D. ENE, Daniel AVRAM, Carmen TISEANU, Augustin M. MADALAN, International Conference of the Chemical Societies of the South-East European Countries, Târgoviște, oral presentation

BOOK TRANSLATIONS

- Hugh WYBREW, **Liturghia ortodoxă**, Editura Doxologia, Iași, 2024, ISBN: 978-630-301-120-2
- Petru PRUTEANU (ed), **Studii Liturgice Contemporane - vol. 1**, Editura Doxologia, Iași, 2022, ISBN: 978-606-9746-55-4
- John (Patrick) RAMSEY, **Clerul inferior în Biserica Ortodoxă**, Editura Renașterea, Cluj-Napoca, 2020, ISBN: 9786066073080
- Michael Uwe LANG, **Privind către Dumnezeu nostru. Orientarea în timpul rugăciunii liturgice**, Editura Paralela 45, Pitești, 2019, ISBN: 978-973-47-2824-4

LINGUISTIC SKILLS

- English (C1) - Cambridge English: Advanced (CAE) and IELTS Academic

- Greek (A2)
- French (B1)

SCIENTOMETRIC INDICATORS

- h-index: 6 (Google Scholar), 5 (Scopus), 5 (Web of Science)
- citations: 95 (Google Scholar), 87 (Scopus), 86 (Web of Science)
- ORCID: <https://orcid.org/0000-0002-3996-6094>
- Scopus Author ID: 57208566894
- Brainmap ID (UEF-iD): U-1900-062L-0097
- SciProfiles: 1937059