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Faculty of Chemistry and Chemical Engineering
Department of Chemistry
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Ionut-Tudor MORARU, born February 19, 1993, in Cluj-Napoca (Romania)
Nationality: Romanian
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Current position
since **Feb 2023**: **Senior Lecturer** at the Department of Chemistry, UBB

Formation and professional experience:

2012-2015	**Bachelor studies** in Chemistry at the Faculty of Chemistry and Chemical Engineering, UBB
2014-2017	**Master studies** in Advanced Chemistry at the Faculty of Chemistry and Chemical Engineering, UBB
2017-2022	**PhD in Chemistry** thesis title: "From molecular inorganic species to organometallic nanoparticles: a DFT journey" Doctoral School of Chemistry, UBB (advisor: Prof. Luminita Silaghi-Dumitrescu) 6 research stays at LPCNO-INSA-Université Paul Sabatier, Toulouse, France (supervisor: Prof. Romuald Poteau)
2020-2023	**Junior Lecturer** at the Department of Chemistry, UBB
2023	Postdoctoral fellow at the STAR-UBB institute, UBB
2023-2024	Director of a research grant for young researchers, Department of Chemistry, UBB
2024-present	Postdoctoral Researcher BacProBio PNRR project

Scientific production:
• 27 research papers published in peer-reviewed journals (*h*-index = 7)
• >20 oral and poster presentations in national and international scientific conferences

Five selected publications:
1. *A combined theoretical/experimental study highlighting the formation of carbides on Ru nanoparticles during CO hydrogenation*. **I.-T. Moraru**,* L. M. Martínez-Prieto,* Y. Coppel, B. Chaudret, L. Cusinato, I. del Rosal, R. Poteau,* *Nanoscale* **2021**, *13*, 6902.
2. *Tailoring the Synthesis and Stability of Germylenes via electron-rich P=C–P and P=C–P(=S) derivatives*. I.-A. Aghion, R. Septelean,* **I.-T. Moraru,*** A. Cristea, A. Soran, G. Nemes,* *Inorg. Chem.* **2025***, 64,* 23457.
3. *Chiral Spiro-Tetrathiafulvalenes: Synthesis, Chiroptical Properties, Conformational Issues and Charge Transfer Complexes*. A. Bogdan, **I.-T. Moraru,*** N. Vanthuyne, I. Grosu, N. Avarvari,* F. Pop*, *Chem. Eur. J.* **2024**, *30*, e202400564.
4. *In silico modelling of chelate stabilized tetrylene derivatives*. A.-C. Tomut, I.-A. Aghion, R. Septelean, I.-D. Porumb, **I.-T. Moraru***, G. Nemes*, *RSC Adv*. **2024**, *14*, 10161.
5. *Offsets between hyperconjugations, p→d donations and Pauli repulsions impact the bonding of E-O-E systems. Case study on elements of group 14*. **I.-T. Moraru**,* F. Teleanu, L. Silaghi-Dumitrescu, G Nemes*, *Phys. Chem. Chem. Phys*. **2022**, *24*, 13217.

Cluj-Napoca
13/02/2026

Dr. Ionut-Tudor Moraru