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Direcții de cercetare: Structura electronică a moleculelor; Dinamica stărilor electronice excitate; Spectroscopie computațională.

Activitate didactică

- Tehnici de comunicare și limbaje de programare, anul I (curs și laborator)
- Chimie cuantică și structură, anul II (seminar și laborator)
- Biochimie cuantică, anul II BT (laborator)
- Chimie computațională, anul III CH (laborator)

Lucrări științifice (în reviste indexate ISI)

- [1] D. Maftai, G. Zbancioc, I. Humelnicu, and I. Mangalagiu, *Conformational Effects on the Lowest Excited States of Benzoyl-Pyrrolopyridazine: Insights from PCM Time-Dependent DFT.*, *J. Phys. Chem. A*, 2013, **117**(15), 3165–3175, DOI: [10.1021/jp311396m](https://doi.org/10.1021/jp311396m).
- [2] M. Zaharia, S. Jurcoane, D. Maftai, A. Pui, C. Dumitras-Hutaniu, and R. Gradinaru, *Yeast biodegradation of some pesticide dinitrophenols*, *Romanian Biotechnological Letters*, 2013, **18**(2), 8144–8151.
- [3] M. Zaharia, D. Maftai, C. Dumitras-Hutaniu, P. Aurel, Z. Lagobo, O. Pintilie, and R. Gradinaru, *Biodegradation of pesticides DINOCAP and DNOC by yeast suspensions in a batch system*, *Revista de Chimie*, 2013, **64**(4), 388–392.
- [4] D. Maftai, D. Mantu, and V. Bejan, *Crystal structure of 8-(4-Methylbenzoyl)benzo [5,6] isoindolo [1,2-a] phthalazine-9,14-dione*, *Revista de Chimie*, 2013, **64**(3), 301–303.
- [5] D. Mantu, D. Maftai, D. Iurea, C. Ursu, and V. Bejan, *Synthesis, structure, and in vitro anticancer activity of new polycyclic 1,2-diazines*, *Medicinal Chemistry Research*, 2013, **11**, 1–7, DOI: [10.1007/s00044-013-0878-8](https://doi.org/10.1007/s00044-013-0878-8).
- [6] D. Mantu, D. Maftai, D. Iurea, and V. Bejan Antoci, *Crystal Structure of Ethyl 5,10-dioxo-5,10-dihydrobenzo[f]pyridazino[6,1-a]isoindole-11-carboxylate*, *Rev. Chim.*, 2012, **63**(12), 1239–1242.
- [7] A. Fifere, N. Marangoci, S. Maier, A. Coroaba, D. Maftai, and M. Pinteala, *Theoretical study on β -cyclodextrin inclusion complexes with propiconazole and protonated propiconazole*, *Beilstein Journal of Organic Chemistry*, 2012, **8**, 2191–2201, DOI: [10.3762/bjoc.8.247](https://doi.org/10.3762/bjoc.8.247).
- [8] D. Ivanov, D. Maftai, and M. Constantinescu, *Maleamic acids cyclodehydration with anhydrides. DFT study in the gas phase and solution*, *Revue Roumaine de Chimie*, 2011, **56**(2), 89–95.