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1. Lista celor mai relevante publicații

- [1] **D. Maftei**, 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. (**factor de impact** 2013 = **2.775**)
- [2] A. Fifere, N. Marangoci, S. Maier, A. Coroaba, **D. Maftei**, 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. (**factor de impact** 2012 = **2.801**)
- [3] L. Odochian, C. Moldoveanu, and **D. Maftei**, *TG–FTIR study on thermal degradation mechanism of PTFE under nitrogen atmosphere and in air. Influence of the grain size*, *Thermochimica Acta*, 2014, **598**, 28 – 35, DOI: 10.1016/j.tca.2014.10.023. (**factor de impact** 2013/2014 = **2.105**)
- [4] **D. Maftei**, D. Mantu, and V. Bejan, *Crystal structure of 8-(4-Methylbenzoyl)benzo [5,6] isoindolo [1,2-a] phthalazine-9,14-dione*, *Rev. Chim.*, 2013, **64**(3), 301–303. (**factor de impact** 2013/2014 = **0.677**)

2. Teza de doctorat

Titlul tezei:

Cercetări teoretice și experimentale cu privire la fluorescența unor azaheterocicli

Domeniul de Doctorat:

Științe, domeniul Chimie

Conducător științific:

Prof. dr. Ionel Mangalagiu

Instituția:

Universitatea „Alexandru Ioan Cuza” din Iași

Data susținerii publice:

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Data confirmării titlului de Doctor în Chimie:

11 noiembrie 2014, O.M. nr. 634/11.11.2014

3. Articole științifice publicate în reviste cotate ISI

- [1] **D. Maftei**, 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. (**factor de impact 2013 = 2.775**)
- [2] **D. Maftei**, D. Mantu, and V. Bejan, *Crystal structure of 8-(4-Methylbenzoyl)benzo [5,6] isoindolo [1,2-a] phthalazine-9,14-dione*, *Rev. Chim.*, 2013, **64**(3), 301–303. (**factor de impact 2013/2014 = 0.677**)
- [3] **D. Maftei**, I. V. Asaftei, I. Sandu, L. R. Manea, L. M. Bîrsă, and K. Earrar, *Conversion of Industrial Feedstock mainly with Butanes and Butenes over HZSM-5 and Zn/HZSM-5 (nitrate) Catalysts*, *Rev. Chim. (Bucharest)*, 2015, **66**(5). (**factor de impact 2013/2014 = 0.677**)
- [4] L. Odochian, C. Moldoveanu, and **D. Maftei**, *TG–FTIR study on thermal degradation mechanism of PTFE under nitrogen atmosphere and in air. Influence of the grain size*, *Thermochimica Acta*, 2014, **598**, 28 – 35, DOI: 10.1016/j.tca.2014.10.023. (**factor de impact 2013/2014 = 2.105**)
- [5] A. Fifere, N. Marangoci, S. Maier, A. Coroaba, **D. Maftei**, and M. Pinteala, *Theoretical study on β -cyclodextrin inclusion complexes with propiconazole and protonated propiconazole*, *Beilstein Journal of Organic Che-*

- mistry, 2012, **8**, 2191–2201, DOI: 10.3762/bjoc.8.247. (**factor de impact 2012 = 2.801**)
- [6] D. Mantu, **D. Maftei**, 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. (**factor de impact 2012 = 1.612**)
- [7] M. Zaharia, S. Jurcoane, **D. Maftei**, A. Pui, C. Dumitras-Hutanu, and R. Gradinaru, *Yeast biodegradation of some pesticide dinitrophenols*, *Romanian Biotechnological Letters*, 2013, **18**(2), 8144–8151. (**factor de impact 2013 = 0.351**)
- [8] M. Zaharia, **D. Maftei**, C. Dumitras-Hutanu, 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. (**factor de impact 2013/2014 = 0.677**)
- [9] D. Mantu, D. Maftei, 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. (**factor de impact 2012 = 0.538**)
- [10] D. Ivanov, **D. Maftei**, 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. (**factor de impact 2011 = 0.418**)

4. Articole științifice publicate în reviste necotate ISI

- [1] G. Zbancioc, C. Moldoveanu, **D. Maftei**, V. Antoci, I. Mangalagiu, *Synthesis and XRD structure elucidation of new fluorescent pyrrolo-imidazole*, *Acta Chemica Iasi*, 2013, **21**(2) (supplement), 39, DOI:10.2478/achi-2013-0012
- [2] **D. Maftei**, D. C. Sergentu, I. Humelnicu, I. Mangalagiu, *Vibronic structure and intramolecular charge transfer character of the lowest singlet excited state in indolizine and azaindolizines: insights from theory*, *Acta Chemica Iasi*, 2013, **21**(2) (supplement), 58, DOI:10.2478/achi-2013-0012
- [3] L. Odochian, C. Moldoveanu, **D. Maftei**, *Contributions to the Thermal Degradation Mechanism under Nitrogen Atmosphere of PTFE by TG-FTIR*

Analysis. Influence of the Particle Size, *Acta Chemica Iasi*, 2013, **21**(2) (supplement), 59, DOI:10.2478/achi-2013-0012

- [4] D. Isac, **D. Maftei**, I. Humelnicu, *Computational (PCM TD-DFT) study of the first electronic transitions in cis and trans isomers of azobenzene and of some derivatives*, *Acta Chemica Iasi*, 2013, **21**(2) (supplement), 68, DOI:10.2478/achi-2013-0012

5. Participări la conferințe de specialitate internaționale (selectiv)

- [1] I. Mangalagiu, Ghe. Zbancioc, **D. Maftei**, *Theoretical and experimental studies concerning fluorescent derivatives with azaheterocycles skeleton*, *Nanoscience in Mathematics, Physics, Chemistry and Biology, International Symposium*, Cluj-Napoca, martie 2013
- [2] G. Zbancioc, **D. Maftei**, C. Moldoveanu, A. M. Zbancioc, G. Tataringa, I. Mangalagiu, *Synthesis and XRD Structure Elucidation of new Fluorescent Pyrrolo-imidazole*, XIV European Symposium on Organic Reactivity ESOR 2013, 1-6 September 2013, Prague, Czech Republic, (P 137)
- [3] **D. Maftei**, I. Humelnicu, S. Gosav, Gh. Zbancioc, I. Mangalagiu, *Origin of fluorescence loss in benzoyl-substituted pyrrolopyridazines by time-dependent DFT*, 31st European Congress of Molecular Spectroscopy – EUCMOS, Cluj-Napoca, August 2012 (P47)
- [4] S. Gosav, **D. Maftei**, M. L. Bîrsă, *Experimental (FTIR and NMR spectra) and theoretical (DFT) study of novel flavanones*, 31st European Congress of Molecular Spectroscopy – EUCMOS, Cluj-Napoca, August 2012 (P48)
- [5] I. Humelnicu, D. Humelnicu, **D. Maftei**, *New 3d-4f Mixed Coordination Compounds Based on N-, O- Donor Ligands*, *International Symposium on Advanced Complex Inorganic Nano-materials*, Namur, Belgium, September 11-14, 2011 (poster)
- [6] F. Cimpoeșu, I. Humelnicu, **D. Maftei**, M. Ferbințeanu, *On the Ab Initio Account of the Ligand Field Effects and Magnetic Anisotropy in Lanthanide Complexes*, 12th International Balkan Workshop on Applied Physics, Ovidius University, Constanta, 6-8 July 2011 (poster)
- [7] C. Moldoveanu, D. Astefanei, **D. Maftei**, Ghe. Zbancioc, I. Stoian, I. Mangalagiu, *New imidazole based ionic liquids*, *European Exhibition of*

Creativity and Innovation EUROINVENT, Iasi 12 - 14 May 2011 (Innovative Researches R.29.)

6. Participări la conferințe de specialitate naționale (selectiv)

- [1] V. Antoci, D. Mantu, **Dan Maftei**, A. Nicolescu, Ghe. Zbancioc, C. Moldoveanu, I. Mangalagiu, *UV-vis, fluorescence and NMR studies on zinc acetate complexation of novel anthracene-imidazolium salt*, XXXIII-rd Romanian Chemistry Conference, 1-3 October 2014, Calimanesti-Caciulata, Romania, P.S.I.-17, p.17. (P).
- [2] C. Moldoveanu, Ghe. Zbancioc, D. Mantu, V. Antoci. **D. Maftei**, I. Mangalagiu NEW MECHANISTIC INSIGHTS ON THE CYCLOADDITION OF THE BENZIMIDAZOLIUM YLIDES WITH ALKYNES, Zilele Universitatii "Al. I. Cuza-Iasi", 31 Octombrie - 1 Noiembrie 2014, (P).
- [3] C. Moldoveanu, Ghe. Zbancioc, D. Mantu, V. Antoci. **D. Maftei**, I. Mangalagiu THE CYCLOADDITION OF THE BENZIMIDAZOLIUM YLIDES WITH ALKYNES: MECHANISM ELUCIDATION, XXXIII-rd Romanian Chemistry Conference 1-3 october 2014, Calimanești-Caciulata, Valcea, Romania (P).

10 iunie 2015

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