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Domeniu de cercetare: Chimie Organică – Chimia heterociclurilor cu azot

Titular: Laborator: Bazele Chimiei Organice. Hidrocarburi, An I

Laborator: Chimia Organică a Funcțiunilor Simple, An II

Activitate științifică:

- Participări la manifestări științifice: naționale – **37**, internaționale – **19**.
- Articole publicate: în reviste cotate ISI – **11**; în reviste fără factor de impact – **4**. (h-index: **3**)

Lucrări științifice:

1. Antoci, V.; **Mantu, D.**; Cozma, D. G.; Ursu, C.; Mangalagiu, I. I.: Hybrid anticancer 1,2- diazine derivatives with multiple mechanism of action. Part 3 [4,5], *Med. Hypotheses*, **82(1)**, 11-15, **2014**. (IF/2012= **1.054**)
2. **Mantu, D.**; Maftai, D.; Iurea, D.; Ursu, C.; Bejan, V.: Synthesis, structure and *in vitro* anticancer activity of new polycyclic 1,2-diazines, *MedChemRes*, **xx(x)**, 1-7, **2013**. doi: 10.1007/s00044-013-0878-8 (IF/2012= **1.612**)
3. Tucaliuc R. –A.; Cotea, V.V.; Niculaua, M.; Tuchilus, C.; **Mantu, D.**; Mangalagiu, I.I.: New pyridazine-fluorine derivatives: Synthesis, chemistry and biological activity. Part II, *Eur. J. Med. Chem.*, **67(1)**, 367-372, **2013**. (IF/2012= **3.499**)
4. Maftai, D.; **Mantu, D.**; Bejan (Antoci) V.: Crystal Structure of 8-(4-methylbenzoyl)benzo [5,6]isoindolo [1,2-a]phthalazine-9,14-dione, *Rev. Chim. (Bucharest)*, **64(3)**, 301-303, **2013**. (IF/2011= **0.599**)
5. **Mantu, D.**; Maftai, D.; Iurea, D.; Bejan (Antoci), V.: Crystal Structure of Ethyl 5,10-dioxo-5,10-dihydrobenzo[f]pyridazino[6,1-a]isoindole-11-carboxylate, *Rev. Chim. (Bucharest)*, **63(12)**, 1239-1242, **2012**. (IF/2011= **0.599**)
6. Bejan, V.; **Mantu, D.**; Mangalagiu, I. I.: Ultrasound and microwave assisted synthesis of isoindolo-1,2-diazine: A comparative study, *Ultrason. Sonochem.*, **19(5)**, 999-1002, **2012**. (IF/2011= **3.567**)



7. **Mantu, D.**; Luca, M.C.; Moldoveanu, C.; Zbancioc, G.; Mangalagiu, I.I.: Synthesis and antituberculosis activity of some new pyridazine derivatives. Part II, *Eur. J. Med. Chem.*, **45(11)**, 5164-5168, **2010**. (IF/2010 = **3.193**)
8. Humelnicu, D.; Arsene, C.; Burghele, B.; Bertescu, M.; Humelnicu, I.; Sandu, I.; **Mantu, D.**; Olariu, R.-I.: Interaction of Actinide Cations with Heteropolyoxotungstate Ions [SiW11O39]8⁻ and [SiW12O40]4⁻, *Revista de Chimie*, **61(9)**, 841-844, **2010**. (IF/2010= **0.693**)
9. Zbancioc, G.; Zbancioc, A.M.; **Mantu, D.**; Miron, A.; Tanase, C.; Mangalagiu, I.I.: Ultrasounds-assisted synthesis of highly functionalized acetophenone derivatives in heterogeneous catalysis, *Rev. Roum. Chim.*, **55(11-12)**, 983-987, **2010**. (IF/2010 = **0.311**)
10. **Mantu, D.**; Moldoveanu, C.; Nicolescu, A.; Deleanu, C.; Mangalagiu, I.I.: A facile synthesis of pyridazinone derivatives under ultrasonic irradiation, *Ultrason. Sonochem.*, **16(4)**, 452-454, **2009**. (IF/2009 = **2.993**)
11. Simionescu, M.; Săcărescu, L.; Săcărescu, G.; **Mantu, D.**; Mangalagiu, I.I.: Silicon based materials for biooptoelectronics, *Rom. Biotech. Lett.*, **14(3)**, 4395-4401, **2009**. (IF/2009= **0.152**)