

VASILICHIA ANTOCI

Research Areas/Interest

- **Chemistry and Health:** chemistry of azaheterocyclic compounds and medicinal chemistry;
- **Chemistry and nanosciences:** highly fluorescent materials, chemosensors;
- **Chemistry and the Environment:** Eco-friendly reactions under ultrasound assistance.

Chemistry and Health: synthesis of biologically active target compounds (anticancer, antituberculosis, antimicrobials), growth factors in agriculture, new nanomaterials with benz/imidazole skeleton;

Chemistry and Nanoscience: synthesis of new highly fluorescent materials, chemosensors.

Chemistry and environment:

"environmentally friendly" reactions under ultrasound assistance; chemosensors.

Keywords: heterocycles, diazines, ylides, ultrasounds, cycloadditions, anticancer, tuberculosis, antibiotics, growth factors, fluorescent materials, semiconductors, chemistry "eco-friendly chemistry".



(b.1979)

Lecturer, PhD

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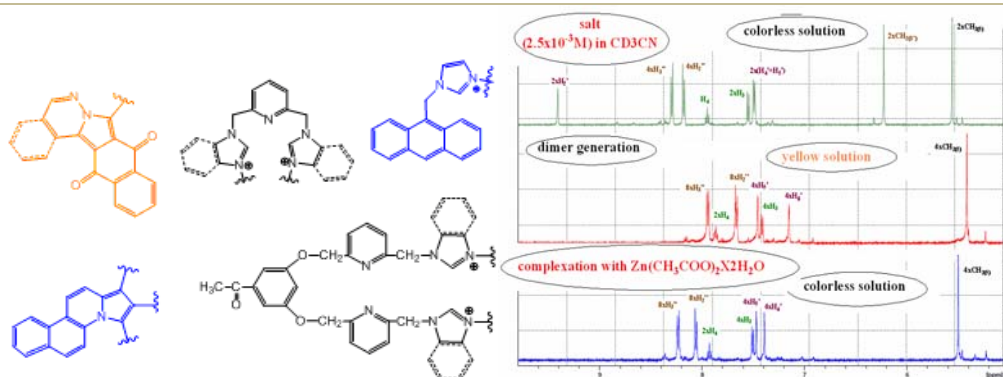
Organic Chemistry
Heterocyclic
Chemistry

Research Scientist III
- 2013.
Lecturer-2015.

PhD studies-
„Alexandru Ioan
Cuza” University of
Iasi, 2010

Research stage:
21 april-21 july 2008,
"Université des
Sciences et
Tehnologies de Lille",
France.

Research stage:
28 may-26 august
2012, "University of
Florence", Department
of Chemistry, Firenze,
Italy.



Publications (selection)

Mantu, D., Maftei, D., Iurea, D., Ursu, C., **Bejan, V.**, Synthesis, structure and *in vitro* anticancer activity of new polycyclic 1,2-diazines, *MedChemRes*, 23(6), 2909-2915, **2014**.

Maftei, 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.*, 64(3), 301-303, **2013**.

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**.

Mantu, D., Maftei, 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.*, 63(12), 1239-1242, **2012**.

Bejan, V., Mangalagiu, I.I., Benzof[quinoline]: Synthesis and Structural Analysis, *Rev. Chim. (Bucharest)*, 62(2), 199-200, **2011**.

Bejan, V., Moldoveanu, C., Mangalagiu, I.I., Ultrasound assisted reactions of steroid analogous of anticipated biological activities, *Ultrason. Sonochem.*, 16(3), 312-315, **2009**.

Zbancioc, Ghe.; **Bejan, V.**; Risca, M.; Moldoveanu, C.; Mangalagiu I.I.: Microwave Assisted Reactions of Some Azaheterocyclic Compounds, *Molecules*, 14, 403-411, **2009**.

Butnariu, R., Caproșu, M., **Bejan, V.**, Ungureanu, M., Poiata, A., Tuchilus, C., Florescu, M., Mangalagiu, I.I., Pyridazine and Phthalazine Derivatives with Potential Antimicrobial Activity, *J. Heterocyclic Chem.*, 44, 1149-1152, **2007**.