

ELENA BÎCU (BÂCU)

Research themes:

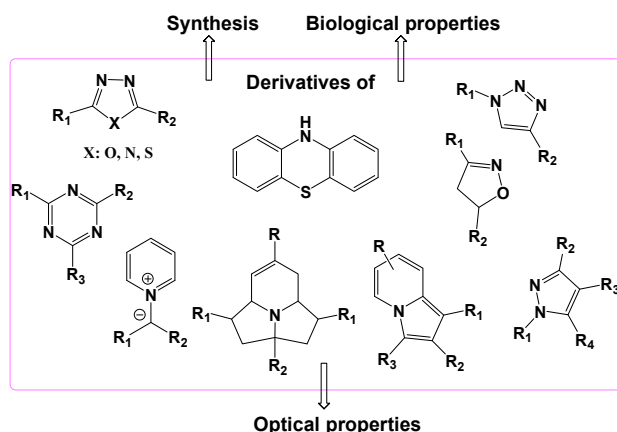
- **Organic Chemistry:** Heterocyclic derivatives with N, S and O;
- **Medicinal Chemistry:** New biologically active compounds;
- **Materials chemistry:** Organic semiconductors.

Organic Chemistry: Synthesis of heterocyclic derivatives with N, S and O.

Medicinal Chemistry: Synthesis of target biological active compounds (anticancer, anti-inflammatory, antimicrobial).

Materials chemistry: Synthesis of copolymer with special properties.

Keywords: phenothiazines, s-triazines, indolizines, pyrazoles, thiadiazoles, triazoles, isoxazolidines, oxadiazoles, pyrazolones, *N*-ylids, 1,3-dipolar cycloadditions, anticancer, tubulin, inhibitors of farnesyltransferase, antimicrobial, fluorescence, semiconductors.



Publications (selection)

Belei, D., Dumea, C., **Bîcu, E.**, Marin, L., Phenothiazine and pyridine-N-oxide-based AIE-active triazoles: synthesis, morphology and photophysical properties, *RSC Advances*, 5, 8849-8858, **2015**.

Hopf, H., Jones, P. G., Nicolescu, A., **Bîcu, E.**, Birsa, L. M., Belei, D., A facile synthesis of Pechmann dyes, *Chemistry - A European Journal*, 20, 5565-5568, **2014**.

Belei, D., Abuhaie, C., **Bîcu, E.**, Jones, P., Hopf, H., Birsa, L., A Direct Synthesis of Octahydropyrrolo[2,1,5-cd]indolizin-6-one Derivatives, *Synlett*, 4, 545-548, **2012**.

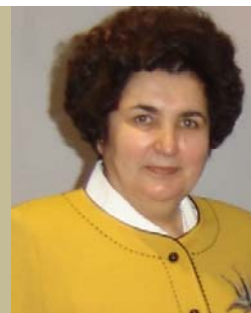
Baciu-Atudosie, L., Ghinet, A., Belei, D., Gautret, P., Rigo, B., **Bîcu, E.**, An efficient one-pot reaction for the synthesis of pyrazolones bearing a phenothiazine unit, *Tetrahedron Letters*, 53, 6127-6131, **2012**.

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Bâcu, E., Belei, D. S., Nowogrocki, G., Couture, A., Grandclaudon, P., Benzoinolizine derivatives of *N*-acylphenothiazine. Synthesis and characterization, *Organic & Biomolecular Chemistry*, 1, 2377-2382, **2003**.

Bâcu, E., Couture, A., Grandclaudon, P., Synthesis and characterization of 2,2-disubstituted-5-(2-phenothiazin-10-ylethyl)-2,3-dihydro-1,3,4-oxadiazoles, *Synthetic Communications*, 33, 143-151, **2003**.

Bâcu, E., Chitanu, G. C., Couture, A., Grandclaudon, P., Singurel, Gh., Carpov, A., Potential drug delivery systems from maleic anhydride copolymers and phenothiazine derivatives, *European Polymer Journal*, 38, 1509-1513, **2002**.



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