Școala Doctorală de Chimie (SD Chem)
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Azaheterocicli de cinci și sase atomi cu potențiale aplicații practice
Five- and six-membered ring azaheterocycles of practical interest

Descrierea succintă a temei de cercetare (ro)

Tema de cercetare propune sinteza, caracterizarea și potențialele aplicații în medicină, opto-electronică și agricultură a unor noi azaheterocicluri de 5 și 6 atomi. Din categoria azaheterociclurilor de 5 atomi sunt vizați cu precădere derivații diazolici și triazolici, iar din azaheterociclurilor de 6 atomi sunt vizați cu precădere derivații azinici și diazinici.

Short description of the research subject (en)

This research aims to develop efficient synthetic strategies for the preparation of novel azaheterocyclic structures and to investigate their physicochemical, photophysical, and biological properties. Emphasis will be placed on structure–property relationships to understand how molecular design influences fluorescence behavior and biological activity. The results are expected to contribute to the development of functional molecules with potential applications in bioimaging, sensing, or medicinal chemistry.

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