

RAMONA DĂNAC

Research themes:

- **Chemistry and health:** N-heterocycles chemistry, medicinal chemistry;
- **Chemistry and nanosciences:** N- and O-macrocycles, molecular devices, supramolecular chemistry;
- **Materials chemistry:** organic semiconductors

Chemistry and health: synthesis of target biological active compounds (antitumor, antimycobacterial, antimicrobial), new nanomaterials and nanobiomaterials having heterocyclic skeleton;

Chemistry and nanosciences: synthesis of azacryptands and crown ethers, new high fluorescent materials, molecular devices, chemosensors;

Materials chemistry: electrical properties of thin films of organic compounds;

Keywords: N-heterocycles, ylids, azacryptands, calixarenes, cycloadditions, anticancer, antimycobacterial, antimicrobial, nanobiomaterials, fluorescent materials, semiconductors, molecular devices, chemosensors.

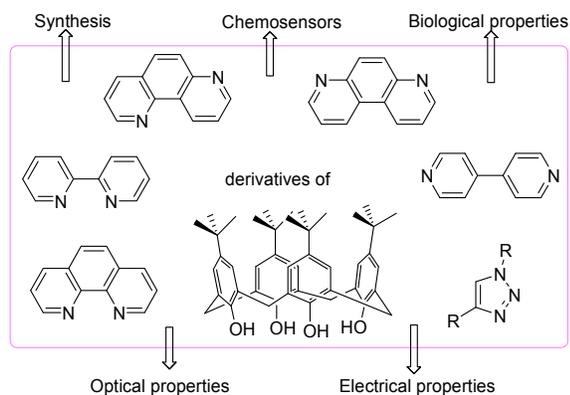


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**Organic chemistry
Heterocycles
chemistry**



Publications (selection)

Danac, R., Mangalagiu, I., Antimycobacterial activity of nitrogen heterocycles derivatives: bipyridine derivatives. Part III, *Eur. J. Med. Chem.*, 74, 664-670, **2014**.

Postolachi, R., **Danac, R.,** Buurma, N.J., Pui, A., Balan, M., Shova, S., Delanu, C., New Cycloimmonium Ylide Ligands and their Palladium (II) Affinities, *RSC Advances*, 3, 17260-17270, **2013**.

Leontie, L., **Danac, R.,** Girtan, M., Carlescu, A., Rambu, A.P., Rusu, G.I., Electron transport properties of some new 4-tert-butylcalix[4]arene derivatives in thin films, *Materials Chemistry and Physics*, 135, 123-129, **2012**.

Danac, R., Leontie, L., Carlescu, A., Rusu, G.I., DC Electric Conduction Mechanism of Some Newly Synthesized Indolizine Derivatives in Thin Films, *Materials Chemistry and Physics*, 134, 1042-1048, **2012**.

Danac, R., Rusu, R., Rotaru, A., Pui, A., Sova, S., New Conjugates of Calix[4]arenes Bearing Bipyridine and Indolizine Heterocycles, *Supramolecular Chemistry*, 24(6), 424-435, **2012**.

Rotaru, I., Druța, E., Avram, **Danac, R.,** Synthesis and properties of fluorescent 1,3-substituted mono and biindolizines", *Arkivoc*, 13, 287-299, **2009**.

E. van Dijkum, **Danac, R.,** Hughes, D.J., Wood, R., Rees, A., Wilkinson, B.L. and Fairbanks, A. J. Synthesis of glucose derivatives modified at the 4-OH as potential chain-terminators of cellulose biosynthesis; herbicidal activity of simple monosaccharide derivatives, *Organic & Biomolecular Chemistry*, 7, 1097-1105, **2009**.

PhD

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