

NECULAI-CĂTĂLIN LUNGU

Research themes:

1. Heterocyclic and macromolecular chemical synthesis
2. Yeast cultures monitoring ("*Saccharomyces cerevisiae*"), under micropilot laboratory conditions.
3. Studies of biocatalytic effects of inhibited penicillinases on the penicillin G degradation in the aqueous medium.

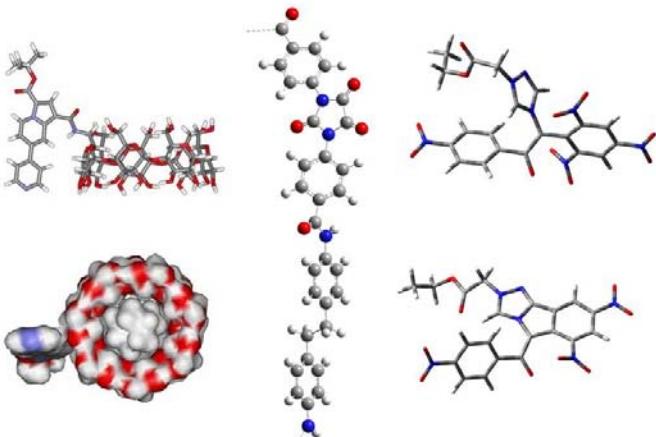


(b.1958)

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- Organic chemistry
- Macromolecular chemistry
- Biotechnology



Publications (selection)

Karzazi, Y., Surpăteanu, Gh., **Lungu, N.C.**, Vergoten, G., A Comparative X-Ray Diffraction Study and «ab initio» MO Calculations on Amidocyanopyridinium Methylide, *J. Mol. Struct.*, 406, 45, **1997**.

Surpăteanu, G.G., **Lungu, N.C.**, An Experimental and Theoretical Study on the Intramolecular Annelatin of Disubstituted Carbanion 1,2,4-Triazolium Ylides to Isoindoles, *Rev. Roum. Chim.*, 49(9), 747-752, **2004**.

Lungu, N.C., Dépret, A., Delattre, F., Surpăteanu, G.G., Cazier, F., Woisel, P., Shirali, P., Surpăteanu, Gh., Synthesis of a new fluorinated fluorescent β -cyclodextrin sensor, *J. Fluor. Chem.*, 126, 385-388, **2005**.

Surpăteanu, G.G., Landy, D., **Lungu, N.C.**, Fourmentin, S., Surpăteanu, Gh., Réthoré, C., Avarvari, N., Synthesis and inclusion capability of a β -cyclodextrin-tetrathiafulvalene derivative, *Tetrahedron*, 62, 9701-9704, **2006**.

Surpăteanu, G.G., Landy, D., **Lungu, N.C.**, Fourmentin, S., Surpăteanu, Gh., New Fluorescent Bis- β -Cyclodextrin-Indolizine Sensor. Synthesis and Sensing Ability, *J. Heterocyclic Chem.*, 44(4), 783-786, **2007**.

Surpăteanu, G.G., **Lungu, N.C.**, Fourmentin, S., Landy, D., Surpăteanu, Gh., Avarvari, N., A competitive sensing system based on cyclobis(paraquat-p-phenylene) and a new β -cyclodextrin-tetrathiafulvalene derivative, *Supramolecular Chemistry*, 21(5), 372-378, **2009**.

Surpăteanu, G., **Lungu, N.C.**, Chemical Behavior of Methylene in the Presence of Ammonia, Carbon Dioxide and Water, *Rev. Chim. (Bucureşti)*, 62(11), 1107-1110, **2011**.

Asaftei, I. V., Alexandroaei, M., Birsa, M.L., Luca, A. C., Grdinaru, R., **Lungu, N.C.**, The Action of a Penicillinase with Attenuated Activity on a Penicillin G Substrate, *Rev. Chim. (Bucureşti)*, 65(8), 903-906, **2014**.

PhD

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