

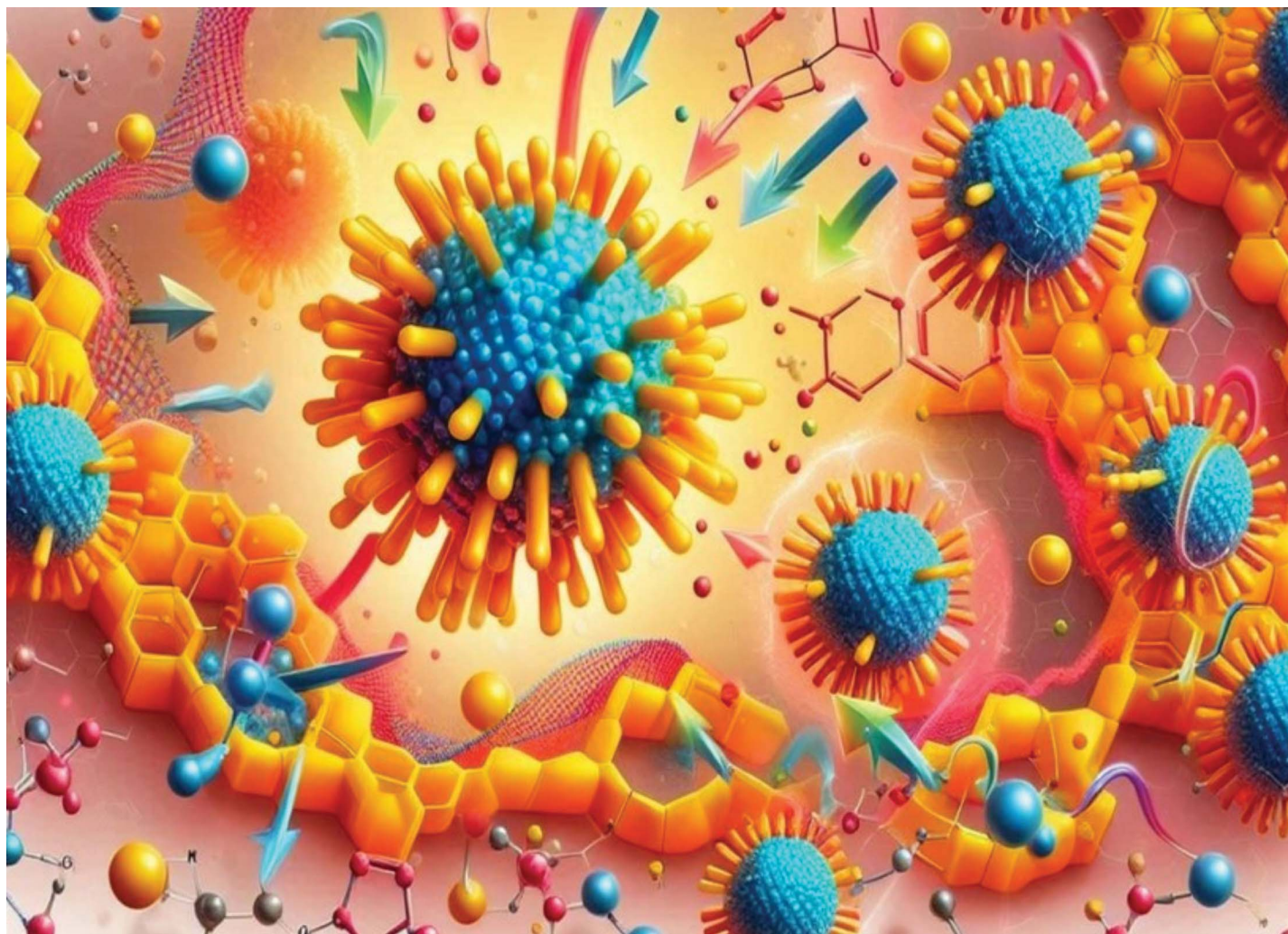
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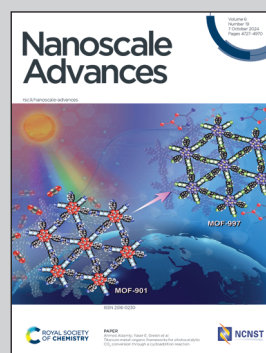


**Showcasing research from Professor Edina Rusen's laboratory, Faculty of Chemical Engineering and Biotechnologies, National University for Science and Technology Polytechnica Bucharest, Romania in collaboration with National Institute for Research and Development in Microtechnologies—IMT Bucharest, Romania.**

Different morphologies of super-balls obtained to form photonic crystals of cholesteryl benzoate liquid crystals

The current study highlights the synthesis and characterization of some nanocomposite materials formed by polymer particles and a liquid crystal. The liquid crystal used was cholesteryl benzoate (CLB), and the particles were synthesized by emulsion polymerization in the absence of the emulsifier. Through XPS it was underlined that in the case of the smallest amount, respectively the largest amount of CLB, they are encapsulated in the polymer particles, unlike the case of the average amount used, in which core-shell type morphologies have been obtained.

### As featured in:



See Edina Rusen *et al.*,  
*Nanoscale Adv.*, 2024, **6**, 4814.