

Plasmonic and Magnetic Nanoparticles for Biomedical Applications

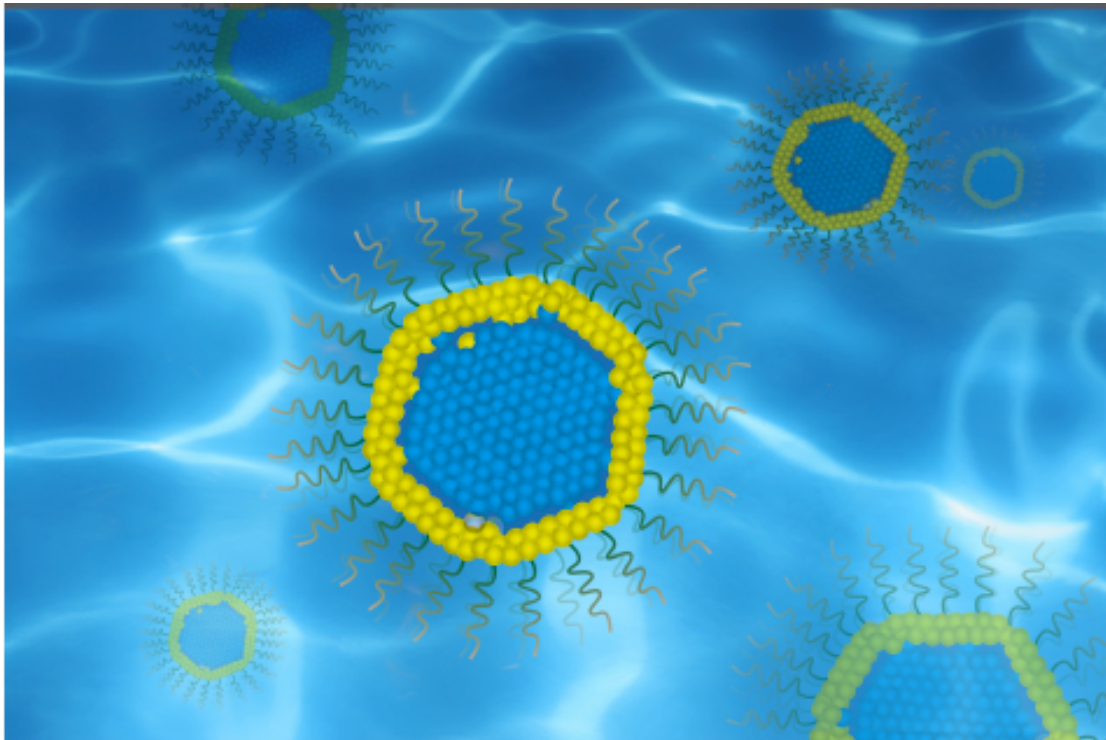
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**Jueves 27 de septiembre, 13:00 hs, aula de seminarios RFP,
INQUIMAE, tercer piso**

Abstract

In this presentation I will present the most recent results from our group on synthesis and biofunctionalisation of plasmonic and magnetic nanoparticles for potential biomedical applications in diagnosis and treatment of diseases.



Most recent references:

1. Baber R., Besenhard, M.O., LaGrow, A.P., Mazzei, L., Thanh, N. T. K* and Gavriilidis, A. (2018) Effects of Mass Transfer on Nanoparticle Syntheses: A Case Study for Silver and Gold. *CrysEngComm*. In Press. Cover page.
2. Pallares, R.M., Sutarlie, L., Thanh, N.T.K.* and Xiaodi Su (2018) Tunable plasmonic colourimetric assay with inverse sensitivity for extracellular DNA detection. *Chemical Communications*, DOI: 10.1039/C8CC05465G. Front cover.
3. Pallares, R.M., Sutarlie, L., Thanh, N.T.K. and Xiaodi Su (2018) Fluorescence sensing of protein-DNA interactions using conjugated polyelectrolytes and graphene oxide. *Sensors and Actuators B: Chemical*. 271: 97–103
4. Baber, R., Mazzei, L., Thanh, N. T. K., and Gavriilidis, A. (2017) An engineering approach to synthesis of gold and silver nanoparticles by controlling hydrodynamics and mixing based on a coaxialflow reactor. *Nanoscale*. 9: 14149-1416.
5. Hachani, R., Birchall, M., Lowdell, M., Kasparis, G., Manshian, B., Soenen, S. J., Gsell, W., Himmelreich, U., Gharagouzloo, C. A., Sridhar, S., Tung, L. D., and Thanh, N. T. K. * (2017). Assessing cell-nanoparticle interactions by high content imaging of biocompatible iron oxide nanoparticles as potential contrast agents for magnetic resonance imaging. *Scientific Reports*. 7: 7850.
6. Lu, T. T., Dung, N. T., Nam, P. H., Tung, L. D., Phuc, N. X., Thanh, N. T. K.§ (2017) High waterdispersible, magnetisation and monodisperse CoFe@Pt core/shell nanoparticles. *Nanoscale*. 9: 8893-9248. Cover page.
7. Pallares, R. M., Bosman, M., Thanh, N. T. K.§, and Su, X. (2016) Plasmonic multi-logic gate platform based on sequence-specific binding of estrogen receptors and gold nanorods. *Nanoscale*. 8: 19919–20126. Front cover.