

**Dr. Elena-Laura URSU, Post-Doc**

**Scientific Researcher:** 2016 – "Petru Poni" Institute of Macromolecular Chemistry;

2009 – 2016: Research Assistant – "Petru Poni" Institute of Macromolecular Chemistry and Faculty of Physics, "Alexandru Ioan Cuza" University, Iasi, Romania (RO)

**Education:** 2010: PhD in Physics, RO; 2006: Master in Biophysics and Medical Physic , RO; 2004: Bachelor in Biophysics, RO

**Expertise fields:** Materials Science, Atomic Force Microscopy, Spectroscopy.

**Scientific achievements:** DNA mediated hybrid carbon based materials - metallic nanoparticles (Cu, Au) with potential applications in medicine for diagnosis and therapy; characterization of DNA nanostructures; characterization of polyplex formation; obtaining, functionalization and characterization of nanoparticles (magnetite, Ag, Pt) with application in bioengineering; morphological and emissive properties of materials by AFM; SEM; TEM; DLS; zeta potential; UV-Vis, FTIR, fluorescence and Raman spectroscopy. 45+ publications in international journals; international impact/recognition in the field is reflected by: h-index (Google Scholar): 10, i10 index: 13, Number of citations >350.