

Oleksandr Savchuk

### Short Biography

Oleksandr has a master degree in physics of semiconductors and nanostructures at Chernivtsi National University, Ukraine. His Master thesis was focused on synthesis of ZnO nanoparticles by pulsed laser ablation technique in liquid media. In 2016, he finished the doctorate studies at the University Rovira i Virgili, Tarragona, Spain, where he completed his thesis work conducted in the Physics and Crystallography of Materials and Nanomaterials laboratories, at the Department of Physical and Inorganic Chemistry. It was based on the development of new materials and techniques for luminescence nanothermometry. During the studies, he investigated the temperature dependence of the luminescence properties of optically active lanthanide ions in different host matrices emitting in the visible and near infrared region of electromagnetic spectrum and explored their luminescent nanothermometric potentialities. Also he explored if these nanoparticles can be used as photothermal converters agents for photothermal therapy with the further aim of cancer treatment.