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Research areas: Nanomaterials, Electrospinning, Optical photochemical sensors, biosensors
Research keywords: Metal oxides, metal chalcogenides; photoluminescence spectroscopy; synthesis, characterization and application of nanomaterials; organic, inorganic and hybrid luminophores; chemical sensors, metal ion detection in aqueous media

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Citations: 40 total citations @ Aug 2025 (source Scopus); 41 total citations @ Aug 2025 (source Google Scholars).

Iryna Tepliakova is a young researcher at the Institute of Atomic Physics and Spectroscopy (EZTF ASI) at the University of Latvia in Riga.
In 2019, she received a master's degree in Physics and Astronomy from the Department of Experimental Physics at Odesa National I. I. Mechnikov University in Odesa, Ukraine. She is currently a Ph.D. candidate at the University of Latvia's Faculty of Science and Technology (EZTF). Her Ph.D. research focuses on the fabrication and investigation of nanocomposites based on one-dimensional zinc oxide (ZnO) nanostructures and organic ligands with chelating properties for the optical detection of metal ions in aqueous media. She is an active team member in various domestic and international scientific projects
Her research focuses on developing novel functional nanomaterials for various sensor applications and nanocoatings and on characterizing the optical and structural properties of nanomaterials. These research activities are highly interdisciplinary, spanning the fields of physics, chemistry, and materials science.
Iryna is currently an author of 10 Scopus publications.