Matteo Zaffalon is a Post-Doctoral Researcher at the Materials Science Department of the University of Milano-Bicocca. He graduated with honours in 2018 and earned his Ph.D. in Materials Science and Nanotechnology in 2022 at the University of Milano-Bicocca. In 2020, he collaborated with the Nanotechnology & Advanced Spectroscopy group at the Los Alamos National Laboratory (NM, USA) working on the spectroscopic investigation of solution-grown functional nanostructures for application in photonic and optoelectronic devices. His research is now focused on the spectroscopic study and development of novel nanomaterials for the detection and conversion of ionizing radiation for energy and medical imaging applications. Supported by the Innovation Project Fund from the "University for Innovation Foundation", he is currently developing a new generation of nuclear batteries for applications in strategic infrastructures, of high economic value, located in hostile environments.