Martina Mercurio – Short Biography

Martina Mercurio is a chemist and postdoctoral researcher at Sapienza University of Rome. She received her PhD in Chemical Sciences from Sapienza University in 2024, following a Master's degree in Industrial Chemistry. Her research focuses on the development and characterization of functional nanomaterials and metamaterials for applications in photonics, infrared sensing, and biotechnology.

Her current research activity focuses on the optical characterization of transition-metal-oxide-based metamaterials, particularly MoO_3 and VO_2, for tunable photonic devices operating in the mid-infrared. She has gained international research experience at Northwestern University (USA), the Catalan Institute of Nanoscience and Nanotechnology – ICN2 (Spain), and the University of Warsaw (Poland).

Her expertise includes FTIR and UV–Vis spectroscopy, optical characterization, and morphological and structural characterization of nanomaterials. She is author of 13 publications in international peer-reviewed journals and has presented her research at several international conferences.