

Federico FERRARESE LUPI - CV

Federico Ferrarese Lupi holds a degree in *Physics of Advanced Technologies* from the Department of Physics at the University of Turin, awarded in 2008. In 2012, he earned his Ph.D. in Physics *cum laude* from the University of Barcelona, with a thesis entitled “*Optically Active Substoichiometric Si_3N_4 Micro-Cavities for Sensor Applications.*” From 2012 to 2015, he was a postdoctoral fellow at the MDM Laboratory of the IMM-CNR Institute in Agrate Brianza, where he focused on the fabrication of self-assembled nanostructures using block copolymers and their integration into next-generation electronic devices. He is currently a Senior Researcher in the *Advanced Materials and Life Sciences Division* at INRiM (the Italian National Metrology Institute) in Turin. His main research interests include nanofabrication via self-assembly techniques for the development of metamaterials and optical neuromorphic systems. Dr. Ferrarese Lupi is a member of the *Italian Macromolecules Association (AIM)* and is the author or co-author of over 70 peer-reviewed scientific publications and 3 patents.