Biography

Dr. Sara Cerra is a postdoctoral research fellow at the Department of Chemistry of “La Sapienza” University of Rome. She obtained her PhD in Chemical Sciences in 2022 from the same institution. Her research focuses on the bottom-up synthesis and advanced characterizations of functionalized hydrophilic and hydrophobic nanomaterials, including noble metal, metal oxide, and polymeric nanoparticles, as well as organic/inorganic nanocomposites. Her work aims at elucidating structure–property relationships and exploiting the physicochemical properties of nanoscale systems for functional applications. She is actively involved in interdisciplinary research spanning optoelectronics, chemical sensing, nanomedicine, biotechnology, and environmental remediation.