Mario Barra (**orcid**: **0000-0002-1990-0119**) is senior researcher at the Institute for Superconductors, oxides and other innovative materials and devices (SPIN) of the National Council of Research (CNR), Unity (UoS) of Naples. Since the beginning, his research activity has been devoted to the study of the electromagnetic properties of innovative materials and to the development of related devices to be utilized in different application fields. During the years 2000-2004, the activities were mainly focused on the design, fabrication and experimental testing of planar microwave devices based on superconducting films. Starting from 2005, the scientific work has been basically committed to the investigation of the charge transport phenomena in organic functional materials and on the fabrication and electrical characterization of electronic devices, with a main focus on organic-field effect transistors. More recently, the main research efforts were aimed at studying the possibility to use electrolyte-gated organic transistors for biosensing applications. He is co-author of about 100 papers published in international journals. He was also co-supervisor of about 30 master theses (I and II level) in Electronic, Biomedical and Chemical Engineering.