

Andrea REALE – CV

Associate Professor at the Department of Electronic Engineering of the University of Rome Tor Vergata since 2014, graduated with honors in Electronic Engineering in 1997, PhD in Telecommunications and Microelectronics Engineering in 2001, Assistant Professor at the Department of Electronic Engineering of the University of Rome Tor Vergata from 2004, obtained the Full Professor qualification in Electronics in 2018.

Research activity of Prof. Reale is focussed on 1) Printable electronics for energy: development and characterization of devices based on organic semiconductors and organic-inorganic hybrids, with particular attention to the technological aspects of large-area scale-up for applications in the energy field (photovoltaic, thermoelectric, termoelectrogalvanic) and telecommunication devices (photodetectors for VLC and IR, IR sources); 2) Nanostructured materials (graphene, carbon nanotubes): study of technological applications (thermoelectric composites, thermal management, deformation sensors); 3) Theoretical and experimental analysis of the optical, electro-optical and electrical properties of heterostructure devices for electronics and telecommunications. The research activity in the field of printable electronics for energy has received an important recognition from the Lazio Region, which has decided to support, starting from 2006, the potential of the various innovative technologies for energy based on photovoltaics and thermoelectrics, establishing the Polo Solare Organico of the Lazio Region (CHOSE, Center for Hybrid and Organic Solar Energy, www.chose.it), of which Reale is one of the co-founders. Reale served as Director of CHOSE for 2 years, from November 2019 to October 2021, personally taking care of relations with the administration for important developments of the laboratory and management during the pandemic emergency. Reale coordinated the WP relating to thermoelectric devices of the ASI PEROVSKY project, which led to the creation of a prototype of a flexible thermoelectric module based on nanostructured composite materials.