Ilaria Matacena received PhD (2021) in Electronic Engineering from the University of Naples Federico II, Italy. During her PhD she collaborated with Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA). She was visiting researcher at Kyoto University of Advanced Science, Japan, and now she is currently working as Post-Doc at University of Naples. Her research area is mainly focused on characterization techniques. She works on impedance spectroscopy technique for interface characterization in semiconductor devices, from solar cells to batteries and she performs capacitance measurements on power devices and innovative solar cells. Her current research interests include electrical characterization and TCAD simulations of semiconductor devices.