Luca Francioso received the M.Sc. degree in Physics 2001 at the University of Lecce. Since 2001 he joined the Institute for Microelectronic and Microsystems (CNR-IMM) of the National Research Council of Italy in Lecce (Italy), working in the field of silicon micromachined systems and solid state thin film chemical sensors. Since 2003 he is a permanent staff researcher, devoted to silicon technology development and MEMS devices fabrication. In 2006 he takes the PhD degree with a thesis on application of miniaturized gas sensors for combustion and cabine air quality assessment in the automotive field. Current research interests are related to: i) flexible thermoelectric and piezoelectric generators (ii) Design and manufacturing of semiconductor-based chemical sensors (iii) Organ-On-Chip platforms. He is currently responsible for the M2DCL - Multifunctional Devices Design and Characterization Laboratory at CNR-IMM in Lecce and co-authored many peerreviewed papers on national and international journals, 2 book chapters and several communications to national and International Conferences as regular and invited talks.