I graduated in Chemistry in 2000 and in 2004 I got the PhD degree at the University of Rome Sapienza under the supervision of Prof. G. Balducci in the research field of high temperature materials chemistry. The research results obtained during my PhD internship were published in a series of 14 papers. Between 2004 and 2011, after my PhD, I had several important post-doc experiences in Italy and abroad in research groups focused on materials science (B.Scrosati, University of Roma Sapienza; D.G.Pettifor, Oxford University (UK); G.Cerri, University of Roma Tre; G.Gigli, University of Roma Sapienza; K.Aifantis, Aristotelis University of Thessaloniki-Greece; P.G.Bruce, University of St Andrews, UK. From December 2011 to 2018, I worked as permanent researcher at the Department of Science, University of Basilicata and in December 2018 I moved at the Department of Chemistry, University of Roma La Sapienza. My research interests focus on new materials for advanced energy applications. From 2008 I have been principal investigator in several research projects granted by Italian institution, the EU and private sponsors. I am author of more than 90 articles on peer-reviewd international journals.