

Dr. Simone Quaranta graduated in chemistry (BSc. and Msc-2011) at "Sapienza University of Rome" working on rare oxides thin films as high- κ dielectrics (BSc.-2008) and TiO₂/MWCNT composites for dye sensitized solar cells. He was awarded a Ph.D. in Materials Science by the Ontario Tech (former UOIT, Oshawa, Canada) in 2017 with a thesis concerning synthesis and characterization of nanostructured materials applied to photovoltaics and microwave electronics. As post-doc at the Sapienza department of Electronic and Telecommunication Engineering, he contributed to the development of lithography-free electroplating process in collaboration with Rise s.r.l.

Currently he works as researcher at Institute of for the Study of Nanostructured Materials (ISMN) of the Italian National Research Council (Rome). His recent research interests include the reuse of industrial waste for energy and environmental remediation application. Particularly, he has been investigating the recovery of critical raw materials from Brazilian Amazon rainforest industrial residues (mining, agriculture, fishery) to be used as battery active materials, fertilizers, and adsorbents for environmental remediation. Finally, he is actually extending his research activities to the reconversion of Italian decommissioned mine tailings into value added materials for technological applications.