

SUSTAINABLE MATERIALS, PROCESSES AND SYSTEMS FOR ENERGY TRANSITION

Multiscale characterization of advanced materials and innovative devices for energy transition

Funded By	MINISTERO DELL'UNIVERSITA' E DELLA RICERCA [P.iva/CF:97429780584]
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Context of the research activity	Definition of characterization protocols and development of tomography techniques for the multiscale study of advanced materials and innovative devices for the energy transition
Objectives	<p>This PhD grant is fully supported by the Project “Infrastructure for Energy Transition and Circular Economy @ EuroNanoLab” (iENTRANCE@ENL) in the framework of the NextGenerationEU (NGEU) program (call RI-PNRR). CUP: B33C22000710006</p> <p>Main seat to carry out the research: Sapienza University of Rome</p> <p>Supervisor: Marco Rossi, marco.rossi@uniroma1.it</p> <p>The general objective is to contribute to the developing of a future generation of nanomaterials, processes and systems to limit the environmental impact of production, storage, distribution and use of energy from the perspective of a sustainable and circular economy.</p> <p>This requires to develop multiscale and multi-techniques protocols for chemical-physical-functional-mechanical characterization of materials and related devices for applications of interest for the energy transition, in a perspective of a sustainable and circular economy.</p> <p>In such a framework, the specific objective of this PhD grant will be the use and development of Tomography-based techniques and related protocols for the multiscale study of advanced materials and innovative devices for the energy transition.</p>
Skills and competencies for the development of the activity	Knowledge and/or experience on at least one of these topics: Materials Science, Physics of the Matter, Inorganic Chemistry, Multiscale Characterizations, Electron Microscopies, Scanning Probe Microscopies, Tomography