

Biography

Mariangela Lombardi is Full professor in Material Science and Technology at Politecnico di Torino (Italy). She holds a PhD degree in Materials Science and Technology from Politecnico di Torino and INSA (Institut National des Sciences Appliquées) of Lyon (2009). She gained experience in the field of material research over the last 10 years. She is involved in about 15 Regional, National or European projects focused on materials development and optimization, characterization and testing. She was involved in applied research in the field of materials concerning: the elaboration of dense and porous materials for environmental or biomedical applications and their mechanical characterization; the characterization of nanocomposite oxide ceramic powders, studying the influence of the phase transformation on the final microstructure of the components, and of pure and substituted nanostructured hydroxyapatite powders, evaluating their thermal stability; the preparation and characterization of polymer-based composites, containing ceramic fillers able to influence their thermal or functional behavior; the characterization of metallic samples prepared through additive manufacturing technologies, in order to evaluate the relationship among thermal treatments, microstructures and final properties. These research activities were carried out in the frame of scientific collaborations with universities, such as INSA of Lyon, MIT, EPFL, the University of Rome Tor Vergata, the AGH University of Science and Technology, and in the frame of partnerships with GE Avio, ENI, PRIMA INDUSTRIE, ENEL. She is Author of about 140 papers, including publications on international papers and international conference proceedings, in the areas of material science and engineering.