

Dr. Alessandro Lavacchi is a Research Scientist at the Italian National Research Council (ICCOM-CNR) where he also holds the position of Head of the Electron Microscopy Facility of the Florence Research Area.

His research focuses on electrochemistry and the materials science of surfaces and coatings. In the latest years his activity has been directed to the nanofabrication of catalytic architectures with a special emphasis on the application of nanostructured catalysts to exploit biomass in electrochemical systems. In this context he has contributed to the development of "facile" methods for the synthesis of platinum-free electrocatalysts for application in fuel cells, electrolyzers and raw chemical electro-synthesis.

The activity has produced the co-authorship of more than 80 papers in leading international journals and the monograph "Nanotechnology in Electrocatalysis for Energy" edited by Springer. Currently, Dr. Lavacchi is the Editor-in-Chief of "Coatings", an international journal devoted to the materials science and application of thick and thin films.