

Prof. Antonio Buonerba - CV

Antonio Buonerba is Associate Professor of Chemistry and Spectroscopy Techniques at the Department of Chemistry and Biology "A. Zambelli" of the University of Salerno, where he leads research in the SCIC-lab (Sustainable Catalysis & Inorganic Chemistry). He holds a Ph.D. in Chemistry (2012) and a Laurea in Chemistry (2007) from the same University. His research focuses on: *i)* the development of novel nanodevices for biomedical applications; *ii)* development of novel functional polymers and nanomaterials for applications ranging from catalysis to water treatment; *iii)* the development of novel sustainable catalytic routes and polymers; *iv)* the development of novel membrane bioreactors of wastewater treatment; *v)* CO₂ valorization. He has participated in several national and regional research projects. He regularly serves as a peer reviewer for high-impact journals and is a member of the Italian Chemical Society. Prof. Buonerba is the author of over 90 scientific, peer-reviewed articles, with a response of approximately 2,800 citations and an H-index of 29. He has also filed four patents in the field of polymer material applications and biomedical nanodevices.