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Pierluigi Lasala is a last year doctoral student in Chemical and Molecular Sciences at the University of Bari Aldo Moro and associated researcher at Italian National Research Council – Institute for Physical Chemical Processes CNR – IPCF. His research interest is focused on studying nanomaterials to address environmental challenges and renewable energy solutions. Its activities include the synthesis, engineering and characterization of plasmonic nanoparticles and metal oxides, with antimicrobial and catalytic properties, also interfacing bacterial cells, for the development of biohybrid technologies with improved energy conversion efficiency.