

Alessio Occhicone, Ph.D., is a dedicated researcher at the Institute of Sciences and Technologies for Sustainable Energy and Mobility (STEMS) of the National Research Council (CNR), a position he has held since October 2023. His work is at the forefront of sustainable energy research, focusing on critical areas such as CO<sub>2</sub> mitigation, the synthesis of Metal-Organic Frameworks (MOFs), and the development of advanced hybrid materials for green applications. These efforts are integral to advancing technologies that address climate change and promote environmental sustainability.

Alessio earned his Ph.D. in Energy Science and Engineering, where he developed expertise in fuel cells and catalytic systems designed to reduce emissions in combustion engines. His research portfolio includes significant contributions to the development of innovative green processes for waste remediation and CO<sub>2</sub> capture. Moreover, he developed polymer membranes with high proton conductivity and thermal stability, of interest to the next generation of energy systems.