Functionalized Nanomaterials and Operando DRIFT Approach for New Insight on the Gas Sensing Mechanisms

Speaker

## Dr. Arianna Rossi

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Arianna Rossi completed her M.Sc. degree in Chemistry (Magna cum Laude) at the University of Ferrara, in 2021. She obtained a PhD in Physics (Magna cum Laude) at the University of Ferrara, entitled: "Functional materials for CO<sub>2</sub> sensing for indoor applications" in 2025. Currently, her work is focused on the research and development of innovative nanostructured materials for chemoresistive gas sensors. Beyond material synthesis, her expertise extends to sensor applications, particularly in indoor CO<sub>2</sub> monitoring, where she holds a patent. She also contributes to the development of sensors for outdoor and medical applications. A key aspect of her work involves the advanced application of operando DRIFT spectroscopy, performed under both light- and thermoactivation, to gain deeper mechanistic insights.

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<u>13 June 2025</u> 10:00 Room Pedeferri CMIC I Leonardo

Politecnico di Milano Piazza Leonardo da Vinci, 32 20133 Milano

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