

## SHORT BIO:

**Stefano Cimino** has been Research Director of the National Research Council in Italy (CNR) since 2021 working at the institute for Science and Technology for Sustainable Energy and Mobility (STEMS, Napoli, Italy).

He graduated cum laude in Chemical Engineering in 1997 at the University of Napoli Federico II where he earned a PhD in Chemical Engineering in 2001.

Since 2001 he has joined the CNR, initially working as a researcher at the Institute for Research on Combustion in Napoli in the field of heterogeneous catalytic processes for environmental protection and energy production. In 2006 he was visiting researcher at KTH Stockholm (Sweden).

In 2017 he qualified as Full Professor in Chemical Engineering.

From 2016 to 2021 he was a member of the Advisory Board Italian Section of the Combustion Institute.

He is Fellow of the International Association on Carbon Capture (2023-).

He is Member of the Editorial Board of the journals: *Catalysts* (2018-) and *Carbon Capture Science & Technology* (2023-)

Throughout his career, he has worked on several research areas including:

- CO<sub>2</sub> capture and Utilization & Power to Gas (Methanation)
- Catalytic chemical looping (combustion, partial oxidation, integrated CO<sub>2</sub> capture-conversion)
- Catalytic abatement of gaseous pollutants (DeNO<sub>x</sub>, DOC, TWC, LNT, Hg, VOC, H<sub>2</sub>S)
- Catalytic combustion or partial oxidation of light hydrocarbons
- H<sub>2</sub> production & purification
- Olefins production by oxidative dehydrogenation at short contact time
- Poisoning, deactivation and regeneration of heterogeneous catalysts
- Preparation and characterization of heterogeneous catalysts
- Structured and multifunctional catalytic reactors

He has authored 97 publications in ISI-classified journals and he has filed 7 international patents licensed to industrial partners. In 2018, he edited the volume of *Catalysts* entitled “Catalyst Deactivation, Poisoning and Regeneration”, published by MDPI.