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His research work focusses on supporting the development of emerging technologies (TRL 4-7) for CO₂ capture in power plants and various industrial sectors (cement, iron and steel, hydrogen, bioenergy), for CO₂ conversion and for biofuels production through process engineering and techno-economic analyses.

Matteo Romano has published more than 120 scientific papers and is author of the patents on the novel “Integrated Calcium looping” process for CO₂ capture from cement plants, currently at TRL7 demonstration phase in the EU H2020 Cleanker project. He is associate editor of the Elsevier International Journal of Greenhouse Gas Control.