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His research is located in the field of energy and environmental sustainability, in particular regarding the use of renewable sources for the production of drinking water, heat and mass transfer in energy devices, and the numerical modeling of materials. His scientific activity is documented by over 130 publications in indexed international journals, including Energy & Environmental Science, Science Advances and Nature Sustainability.

He won the ENI-Italgas Award for Energy and the Environment. He was invited and / or plenary speaker (30+), invited lecturer for advanced courses around the world (10+) and invited visitor on research stays abroad. Previously he was a member of the Operational Management Board of the European Materials Modeling Council (EMMC) from 2014 to 2019 and Project Technical Advisor (PTA) of the European Commission, Directorate General for Research and Innovation, from 2014 to 2016.