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SHORT BIO:

Dr. Antonio Vita is a Senior Researcher and Head of the Fuel Processing Materials and Technologies (FPMaT) Research Team at the Institute of Advanced Energy Technologies “Nicola Giordano” (CNR-ITAE). His scientific activity focuses on heterogeneous catalysis applied to materials and technologies for the energy and industrial sectors. His current research focuses on the development of innovative structured catalysts (including monoliths, foams, and POCS) for the intensification and electrification of thermochemical processes, aimed at enabling efficient renewable energy storage in chemical carriers (e-fuels), such as methane and ammonia, within Power-to-Gas and Power-to-X pathways. He is also actively engaged in catalytic reforming processes for the production of hydrogen and syngas from both fossil fuels (natural gas, LPG, diesel) and renewable feedstocks (biogas, bioethanol, green ammonia). In addition, his work includes the design, development, and validation of innovative small-scale prototypes. Dr. Vita is the author or co-author of 92 publications in peer-reviewed journals (h-index: 36 on Scopus, 39 on Google Scholar), more than 100 contributions to international conferences (including papers, posters, and oral presentations), approximately 100 technical reports for national and international projects, and 4 book chapters on hydrogen production via reforming processes. He is involved as the Scientific Responsible in several national and international research projects. Some of the more recent include: REBEL (MASE, 2025–2027), ANDREAH (Horizon Europe, 2023–2027), AMBHER (Horizon Europe, 2022–2026), SPHERA (PRIN PNRR, 2023–2026), MULTITool (PRIN 2022, 2023–2026), and PLUG-IN (PRIN 2020, 2022–2025). Dr. Vita serves as Editorial Board Member of the journal *Catalysts* (MDPI, ISSN 2073-4344). He is also an active member of major international scientific associations, including Hydrogen Europe Research and the European Energy Research Alliance (EERA). Additionally, he is responsible for institutional communication activities at CNR-ITAE, including management of the institute’s website.