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In 2014, the Italian Ministry of Education, University and Research has appointed him as national SRG representative for the Fuel Cells and Hydrogen Joint Undertaking (FCH JU) of the European Commission.

He is CNR representative in Challenge 8 of Mission Innovation: Renewable and Clean Hydrogen and in EERA Fuel Cells and Hydrogen.

He is responsible of CNR Foresight activities in the field of energy storage.

He is involved in research programs dealing with energy technologies with special regard to electro-catalysis, electrolysis, fuel cells, solar cells and batteries.

He has published more than 350 articles in international peer-reviewed journals. He is also author of 8 international patents, 10 book chapters (Wiley, Marcel Dekker, Elsevier, ASME, Novapublisher, Woodhead and Springer), one book (Novapublisher) and more than 370 communications to conferences (about 35 invited presentations and keynotes lectures).

He has received more than 19000 citations in scientific journals and has an h-index of 58 (Scopus 2020).

He has been coordinator and responsible scientifically for several projects including EU (10), national (9), bilateral (3), and industry (16)-funded contracts. He has been coordinator of four EU Projects, i.e., H2020 ANIONE, H2020 HPEM2GAS, FP7 DURAMET and FP7 ELECTROHYPEM, and coordinator of an Italian PRIN project (DIRECT BIOPOWER).