Silvia Sfameni - CV

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Current position: Fixed-term Researcher, Level III, at the Institute for the Study of Nanostructured Materials – URT of Messina, National Research Council (CNR).

University/Institute: Institute for the Study of Nanostructured Materials – URT of Messina, National Research Council (CNR-ISMN).

Country: Italy

Brief introduction: Dr. Sfameni graduated in Chemical Sciences in July 2019 and completed an Industrial PhD in Engineering and Chemistry of Materials and Constructions at the Department of Engineering, University of Messina. She obtained her PhD title in November 2022, graduating cum laude and receiving the Doctor Europæus distinction. Her doctoral research focused on nanostructured coatings and surface treatments, with a particular emphasis on sustainable and eco-friendly solutions.

She was a post-doctoral fellow at ISMN-CNR, funded by the PON MUR 2014-2020 TETI project, where she worked on designing and synthesizing smart materials for sensors to monitor environmental pollutants.

Dr. Sfameni is currently a TD Researcher at ISMN-CNR, working on the SAMOTHRACE project within the MUR-PNRR innovation ecosystem. Her research focuses on designing and characterizing hybrid sol-gel-based micro/nanostructured materials to enhance protective performance and optimize surface properties, particularly for precision agriculture.

With almost 25 publications and an h-index of 16, Dr. Sfameni is recognized as an experienced researcher in materials science, nanotechnology, and sustainable chemistry. Her work integrates sustainable materials to address real-world challenges, including the development of bio-based hydrogels, hybrid polymers for water treatment, eco-friendly anti-corrosive coatings, and multifunctional coatings for textiles, blue-growth and other sustainable applications. Dr. Sfameni's scientific activity is enriched by collaborations with national and international research groups, including partners from Italy, Germany, France, Spain, and Belgium. These collaborations have enabled her to push the boundaries of sustainable technology and make significant contributions to the global scientific community.