

## Sylvie Maury



Chemical Engineer with over 20 years of expertise in heterogeneous catalyst development and 5 years in plastics chemical recycling.

Sylvie Maury graduated in 1996 as a chemical engineer specializing in Organic Chemistry from the Institut National des Sciences Appliquées (INSA) in Rouen, France. She began her career by spending two years in Finland, working as an associate teacher and Leonardo intern at the Lappeenranta University of Technology. Upon returning to France, she pursued a PhD at the CNRS in Lyon, where her research focused on the potential of lipase encapsulation in aerogels for esterification reactions.

In 2005, she joined IFP (later renamed IFP Energies Nouvelles) as a catalyst development researcher within the Catalysis, Biocatalysis, and Separation department. From the outset, she was involved in sustainability-driven projects, including biomass conversion for petrochemical applications and biofuel production, such as the transesterification of vegetable oils, alcohol dehydration, and the development of bio and e-fuels through the Fischer-Tropsch process.

Throughout her career, she has explored a wide range of heterogeneous catalytic systems, including acid, base, metallic, and bifunctional catalysts. More recently, her work also includes plastics recycling, reflecting her growing commitment to environmental sustainability in research and industry. Currently, she is managing one PhD project on the hydrocracking of polyolefins using bifunctional catalysts and one on alcohol dehydration on acidic catalysts.

During these past 20 years at IFPEN, she was involved in mentoring and supervising doctoral students in collaboration with different academic partners, which led to around 40 publications. Working in different applied projects led to around 40 patents in various fields.