



Nathalie Di Miceli Raimondi

Nathalie Di Miceli Raimondi is an Associate Professor at the University of Toulouse in France, conducting her research at the Laboratoire de Génie Chimique (LGC), where she serves as co-head of the STPI research group (Science and Technology for Process Intensification). She has been recently appointed Vice-Chair of the EFCE Working Party on Process Intensification.

She obtained a PhD in Chemical and Environmental Engineering from INP Toulouse in 2008, focusing on the study of liquid-liquid mass transfer in microchannels. Before starting her academic career, she spent three years working as an engineer on the development of process simulation software at ProSim SA. Building on this dual expertise, her research focuses on the characterization, modeling, and optimization of compact and millistructured reactors. In particular, she develops numerical and experimental methods and tools for both local and global performance characterization of these compact systems. By leveraging flow chemistry and equipment miniaturization, her work aims to maximize mixing efficiency and enhance mass and heat transfer, which are critical for the safe operation of fast, highly exothermic chemical reactions. Her recent projects also integrate the use of additive manufacturing for millistructured reactors design and structured packings development of innovative gas-liquid contactors.