

Bio Sketch : Alexa Courty is Professor of Chemistry at Sorbonne University, member of the MONARIS Laboratory (UMR 8233), *De la MOlécule aux NAno-objets : Réactivité, Interactions et Spectroscopies* ; and co-leader of the NARCOS team, *NANomatériaux et matériaux nano-structurés : Réactivité, Caractérisation et spectroscopieS*. She earned her master's degree and doctorate in physical chemistry from Université d'Orsay in 1997, followed by a postdoctoral position at the SRSI laboratory at Pierre and Marie Curie University (UPMC). From 1998 to 2010, she served as an assistant professor at UPMC in the same laboratory before assuming the role of Professor at UPMC and later at Sorbonne Université in 2010. Her research focuses on chemical synthesis and the study of the physico-chemical properties of mono- and bimetallic nanoparticles, as well as semiconductors, for applications in catalysis and optics. She has co-authored 54 papers, and 5 book chapter. Since 2019, she has served as the Director of the Paris Centre Graduate School of Physical Chemistry and Analytical Chemistry, previously holding the position of Deputy Director from 2016. Furthermore, she has been a member of the national committee (CNU 31) since 2019.