

# Dominique Vuillaume

is CNRS research director at the Institute for Electronics, Microelectronics and Nanotechnology (IEMN) located at the university of Lille. He is head of the « Molecular Nanostructures & Devices » research group at IEMN. He was scientific advisor for industrial companies (Bull R&D center) and he is presently scientific advisor for the CEA "Chimtronique" research program. His research interests (1984-1992) covered Physics and characterization of point defects in semiconductors and MIS devices, Physics and reliability of thin insulating films, hot-carrier effects in MOSFET's. Since 1992, he is now engaged in the study of the physical and electrical properties of organized organic monolayers (self-assembled monolayers), and more generally in the field of Molecular Electronics. He is involved in the study of the electrical transport through organic monolayers and of the relationship with their structural properties; in the studies of monolayers of functionalized molecules; in the electrical transport through organic unimolecular devices; in the applications of organic monolayers and organic molecules to nanometer-scale devices and molecular-scale electronics. He is the author or coauthor of 138 scientific (peer-reviewed) papers in these fields.

