

Bernard Nysten holds a Master degree in Engineering Sciences (Solid State Physics), a PhD degree in Applied Sciences (Materials Science) and a Higher Education Faculty Qualification from the Université catholique de Louvain (UCLouvain, Belgium). After a post-doctoral stay at the Centre de Recherche Paul Pascal (CNRS) in Bordeaux (France), he joined the Polymer Science laboratory of UCLouvain. In 1996, he became Research Associate of the FRS-FNRS and, in 2007, he was promoted Senior Research Associate of the FRS-FNRS. Since 2012, he is Full Professor at the UCLouvain where he conducts his research in the Institute of Condensed Matter and Nanosciences (IMCN) and teaches at the Louvain School of Engineering (EPL).

Presently, he chairs the Institute of Condensed Matter and Nanosciences (IMCN) and is treasurer of the Royal Belgian Society for Microscopy (RBSM).

His research activities are mainly focused on nanosciences and nanotechnologies, particularly the development and the application of scanning probe microscopies (scanning tunnelling microscopy, STM, and atomic force microscopy, AFM) for the study of material surfaces, especially polymers, and to nanomaterials. It includes the measurement and mapping of the surface mechanical properties of organic surfaces and of the mechanical properties of nanomaterials (nanomechanics), the mapping of surface physico-chemical properties, surface chemical functionalization (nanochemistry), the measurement and mapping of electrical, electronic, ferroelectric and magnetic properties of (hybrid) nanostructures (nanophysics).