


Personal Information

Full name	Robert Kucharczyk	
Current position	Professor	
Organization	University of Wrocław	
Country	Poland	

Short Biography

Robert Kucharczyk has graduated in solid-state physics from the University of Wrocław, Poland. Initially, his scientific interest was focused on electronic properties of semiconductor multi-quantum-well structures, with emphasis placed on localization effects. After completing his Ph.D. in 1995, Robert worked, e.g., on AlGaAs-based superlattices with Johannes Pollmann group at the Universität Münster (Germany), on molecular electronics related issues with Sydney G. Davison at the University of Waterloo (Ontario, Canada), and on electronic and transport properties of mesoscopic composite systems with the group of Leonard Dobrzynski and Bahram Djafari-Rouhani at the Université de Lille (France).

Currently, as a member of the Surface Theory Group of the Institute of Experimental Physics at his Alma Mater, Robert is devoted to modeling, mostly using ab-initio methods, of the adsorption processes, unraveling the growth mechanisms of thin films, investigating the formation and properties of surface nanostructures, and studying modifications of the catalytic activity of metals upon adsorption and/or surface-alloy formation. This research primarily concerns the adsorption systems studied experimentally at his home institution. Besides, Robert is involved in investigating the electronic transport characteristics of molecular junctions, the project carried out in collaboration with the Nanosurf Lab of Pavel Jelínek from the CAS Institute of Physics in Prague (Czech Republic).