



Preparation of hierarchical structures of polymer
surfaces: characterization and applications
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Wolfgang Pauli once said: “God made solids, but surfaces were the work of the devil.” Is that true? A surface is a part of matter interacting with its surroundings, and the forces acting between molecules or atoms in a bulk are quite different compared to the interactions of molecules or atoms that are in direct contact with another substance. That is both their beauty and their complexity. In this seminar, we will discuss preparation of polymeric surfaces that are inspired by nature. The seminar will cover materials such as polycaprolactone, hyaluronic acid and polystyrene. We will discuss the possibility of preparing hierarchical polymer surfaces, as the physicochemical interactions on the surface are not only determined by the chemical composition, but also by morphology.