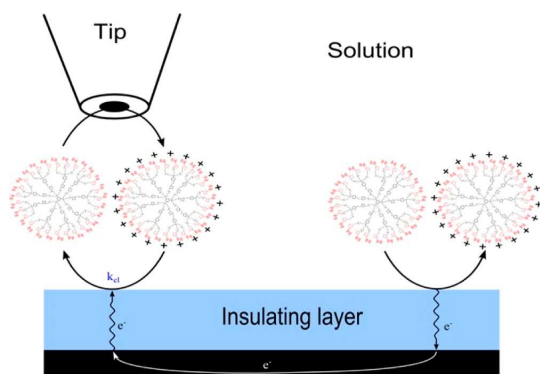


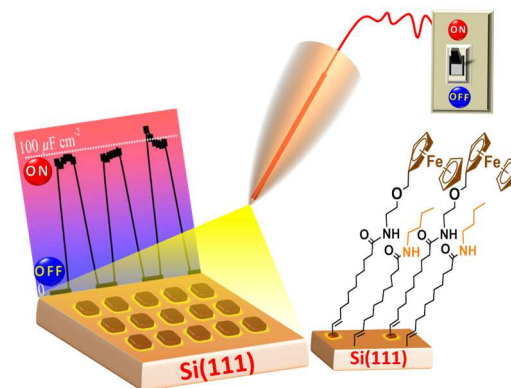


The MaCSE group (University of Rennes 1, France) is seeking a PhD candidate (net salary ~1350 €/month). The research project will focus on the preparation, study and optimization of conducting (carbon materials) and semiconducting surfaces (planar and nanostructured silicon) functionalized with active monolayers. The goal is the understanding/improvement of the charge transfer mechanisms at these surfaces that will be used for cutting-edge applications in molecular electronics, environmental and analytical sciences. The successful candidate will have access to the state-of-the-art equipment present in the Department of Chemistry of Rennes (scanning probe AFMs, electrochemical microscope SECM, scanning electron microscopes, potentiostats, ellipsometer, FTIR...).

A good background in physical chemistry and an interest for electrochemistry will be appreciated. A strong motivation for research and good communication skills are required.



Charge transport through an insulating layer probed using ferrocenyl-terminated dendrimers and scanning electrochemical microscopy [*J. Am. Chem. Soc.* **2014**, 136, 17950]



Light-activated electroactive molecule-based memory microcells confined on a silicon surface [*Angew. Chem. Int. Ed.* **2013**, 52, 12024]

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