



UNIVERSITÉ  
CÔTE D'AZUR 



**Main activity : Preparation of monomers for low surface energy materials**

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- Frederic GUITTARD

**Keywords :**  
superhydrobicity,  
superoleophobicity,  
surface modification,  
surface structuration

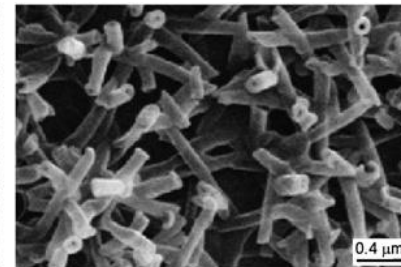
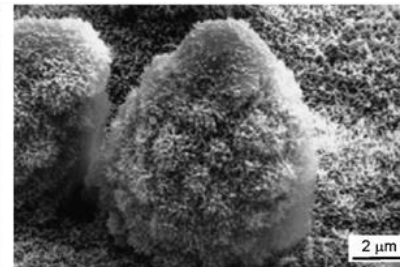
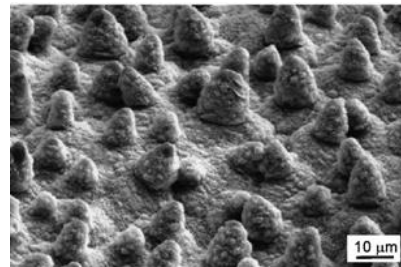


To **molecular design** monomers for electrodeposition or for soft matter methods

To reach **superHYDROphobic** properties without fluorine chemistry

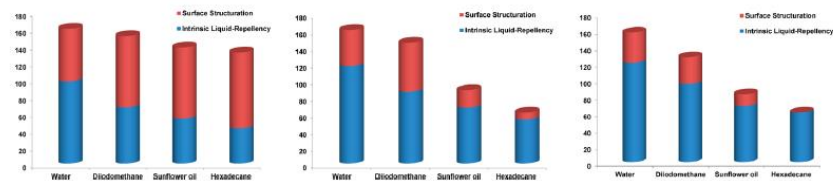
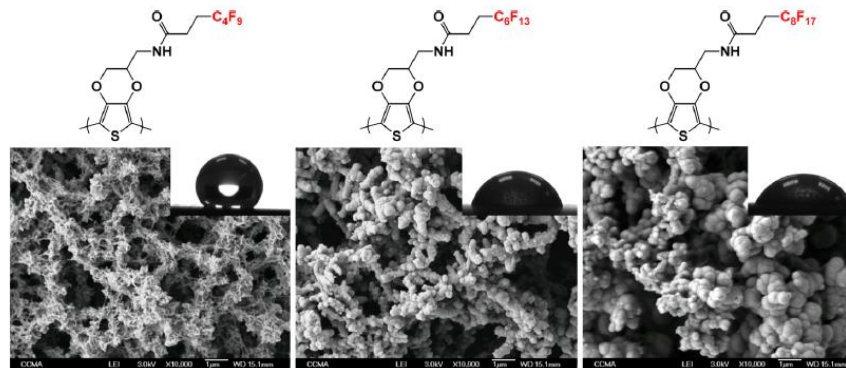
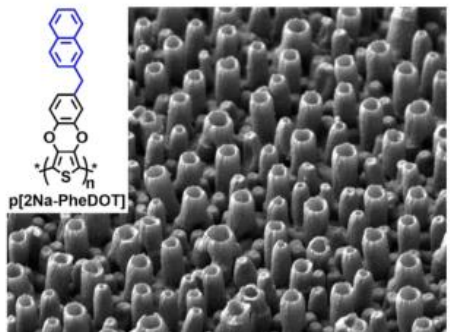
To reach **superOLEOphobic** properties from electropolymerization in one-pot process

To introduce a short fluorinated moieties in order to reach **superOLEOphobic** behaviour

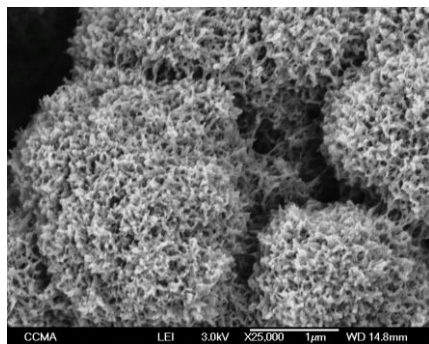
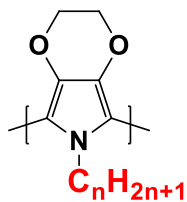


# To build-up surface morphology (examples)

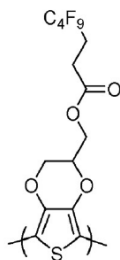
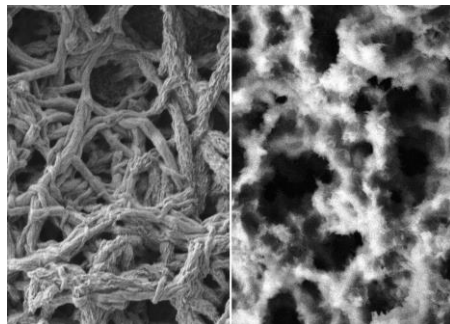
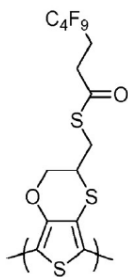
## ...nano-micro tubes / rods



## ...oursin-like



## ... mat fibers



## NANOFIBER CONTROL

