

Proposition de financement doctorale  
Université Paris Diderot – Paris 7  
pour la rentrée 2018-2019

Titre de la thèse :

Redox switchable halogen bond donor for organocatalysis and  
molecular recognition

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This project will explore first the electrochemical activation of novel and original redoxswitchable halogen bond donors for organo-catalysis in solution and on modified electrodes. Second, the electrochemical control of the molecular recognition properties of modified electrodes, covered with novel conducting polymers bearing XB donor moieties, will be investigated. Both projects are promising to provide new insights into molecular recognition and the activation of covalent bonds in the view of developing original systems for applications in the fields of chemo-sensors and electro-assisted catalysis.

**Mots clés** : Electrochemistry, Interfacial reactivity, Organic synthesis, Electrocatalysis