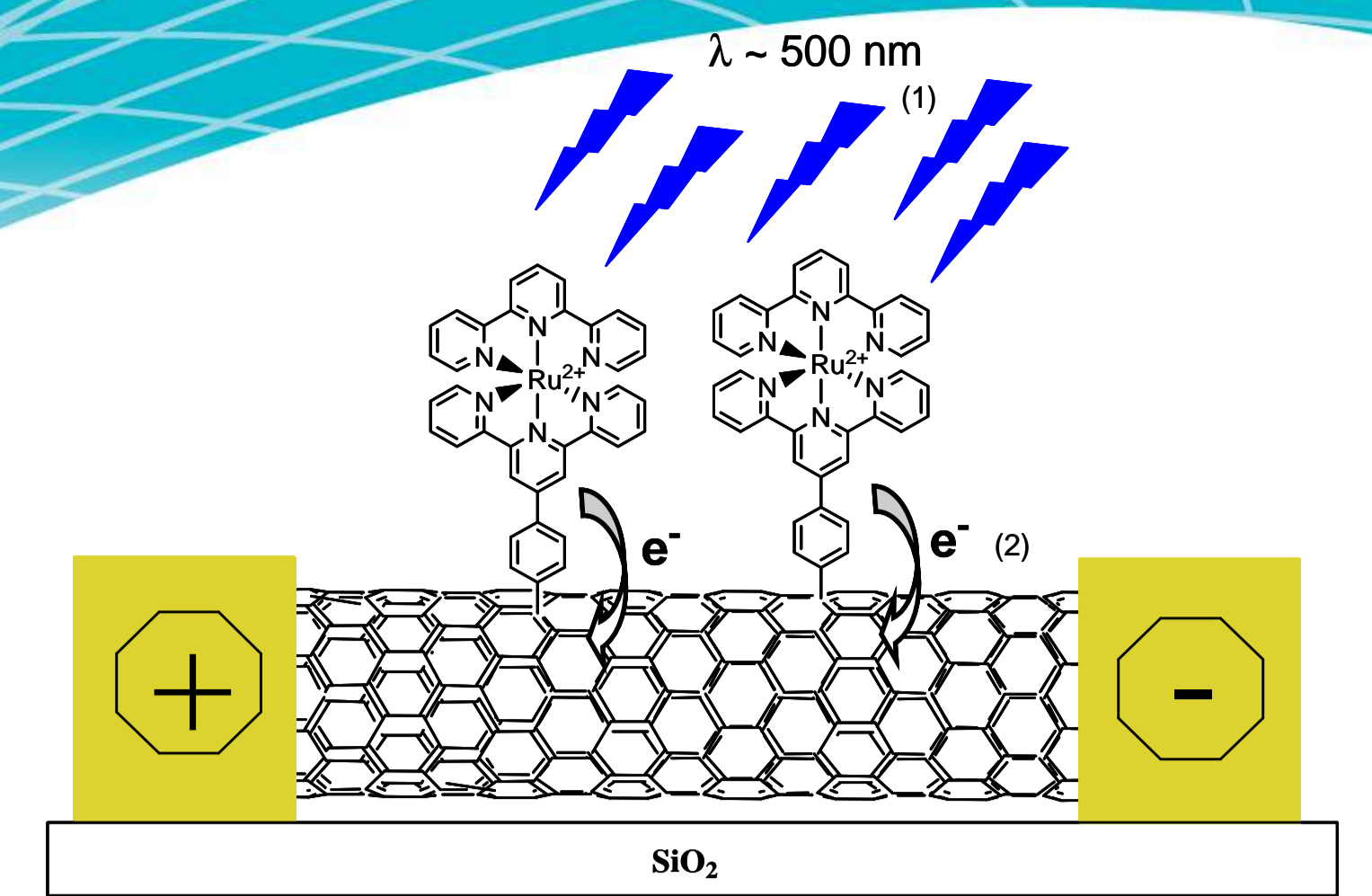


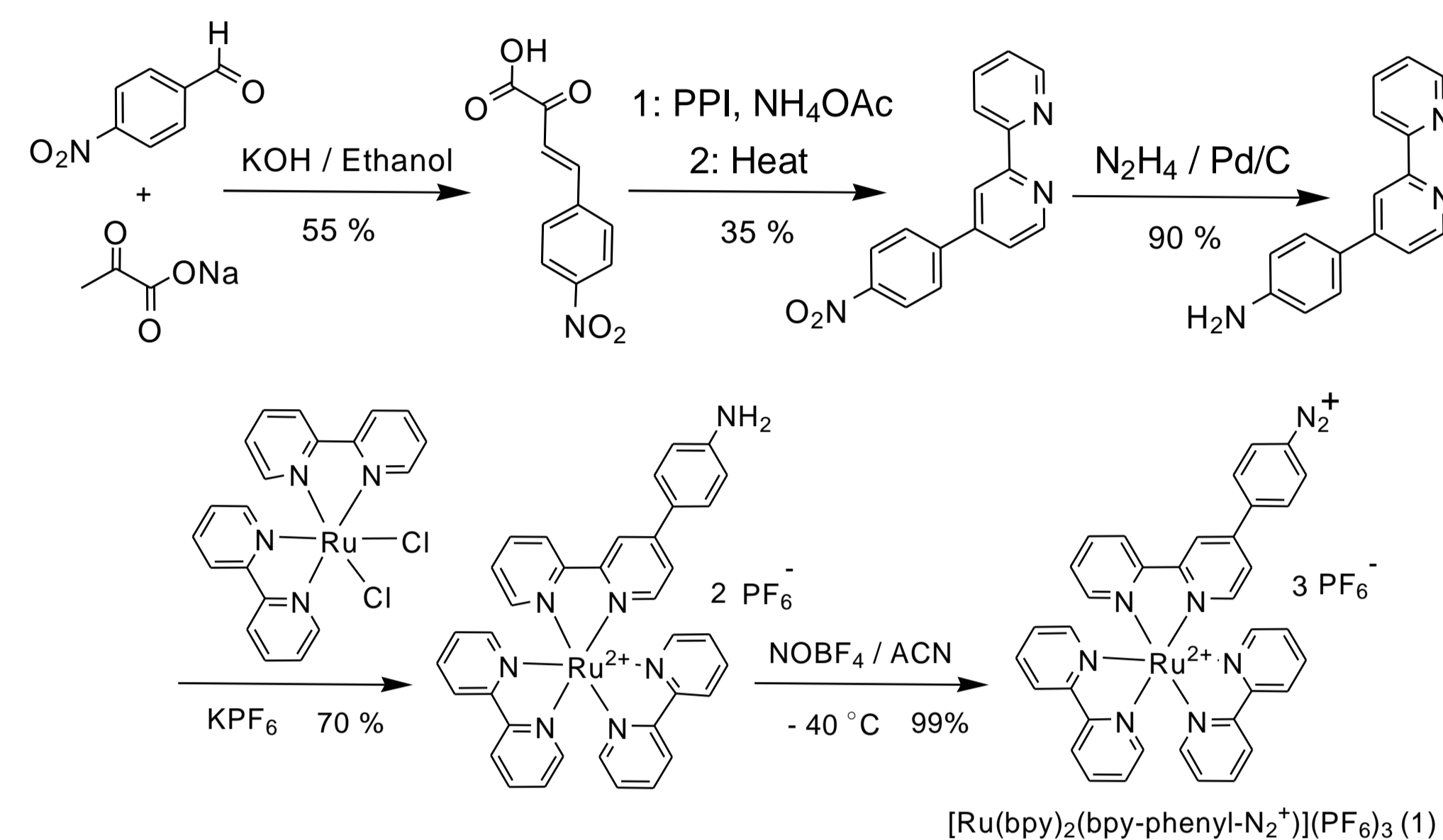
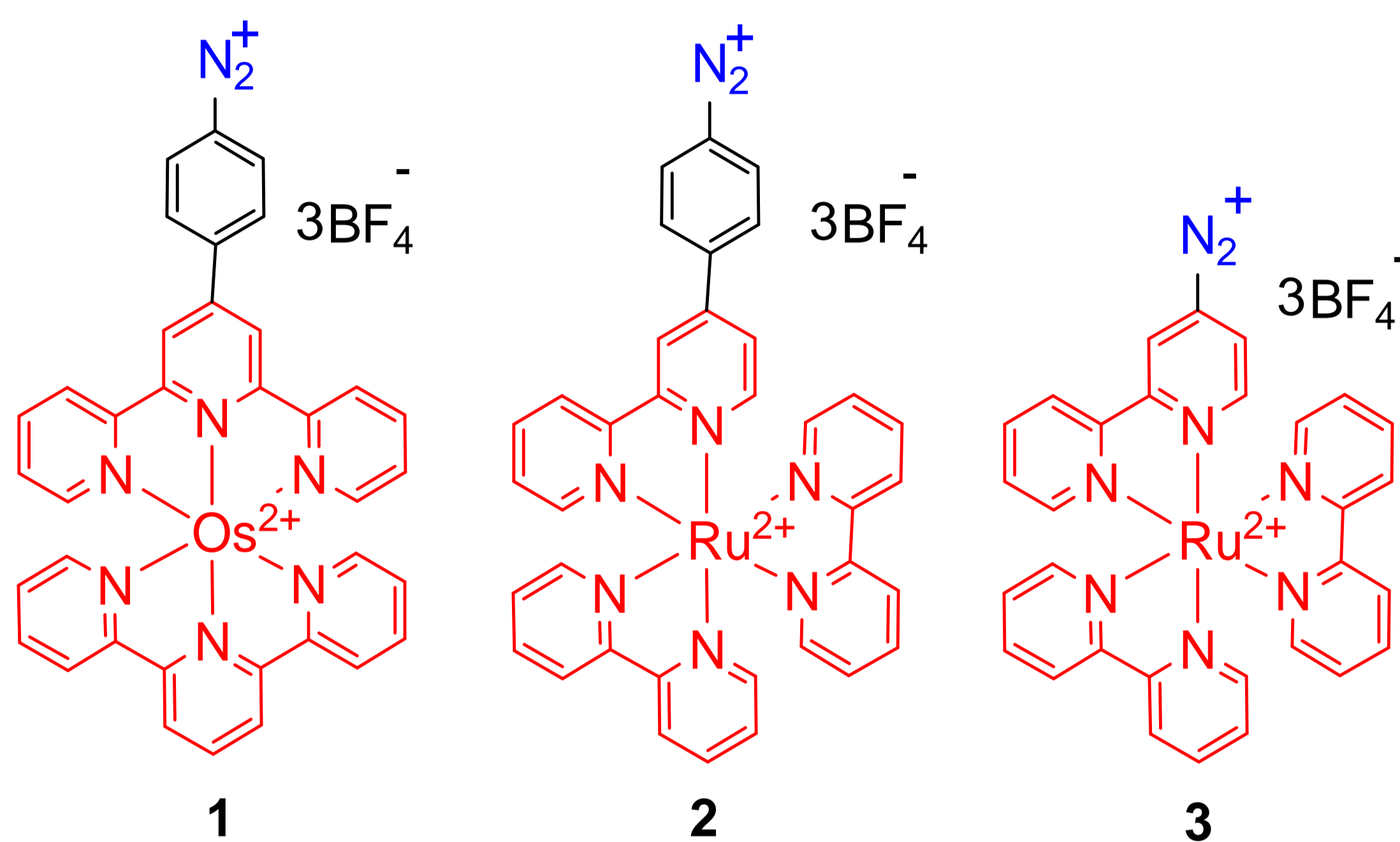
Objectif : Photo-transistor, imageur

Etude du transfert électronique photo-induit entre des photosensibilisateurs et des nanotubes de carbones (NTCs)

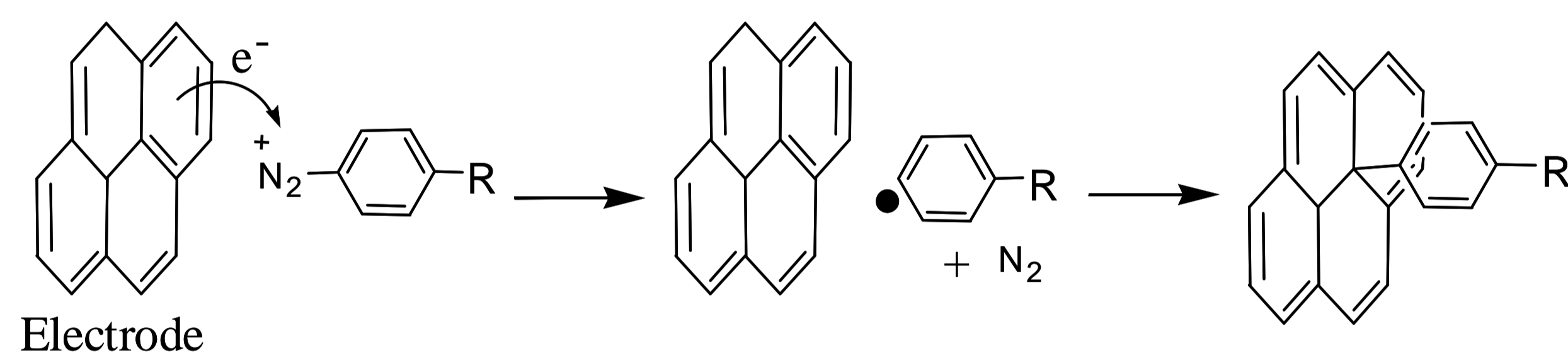


Approche : Electrogreffage covalent de complexes métalliques (Ru, Os, ..) polypyridiniques à la surface de réseaux 2D de NTCs

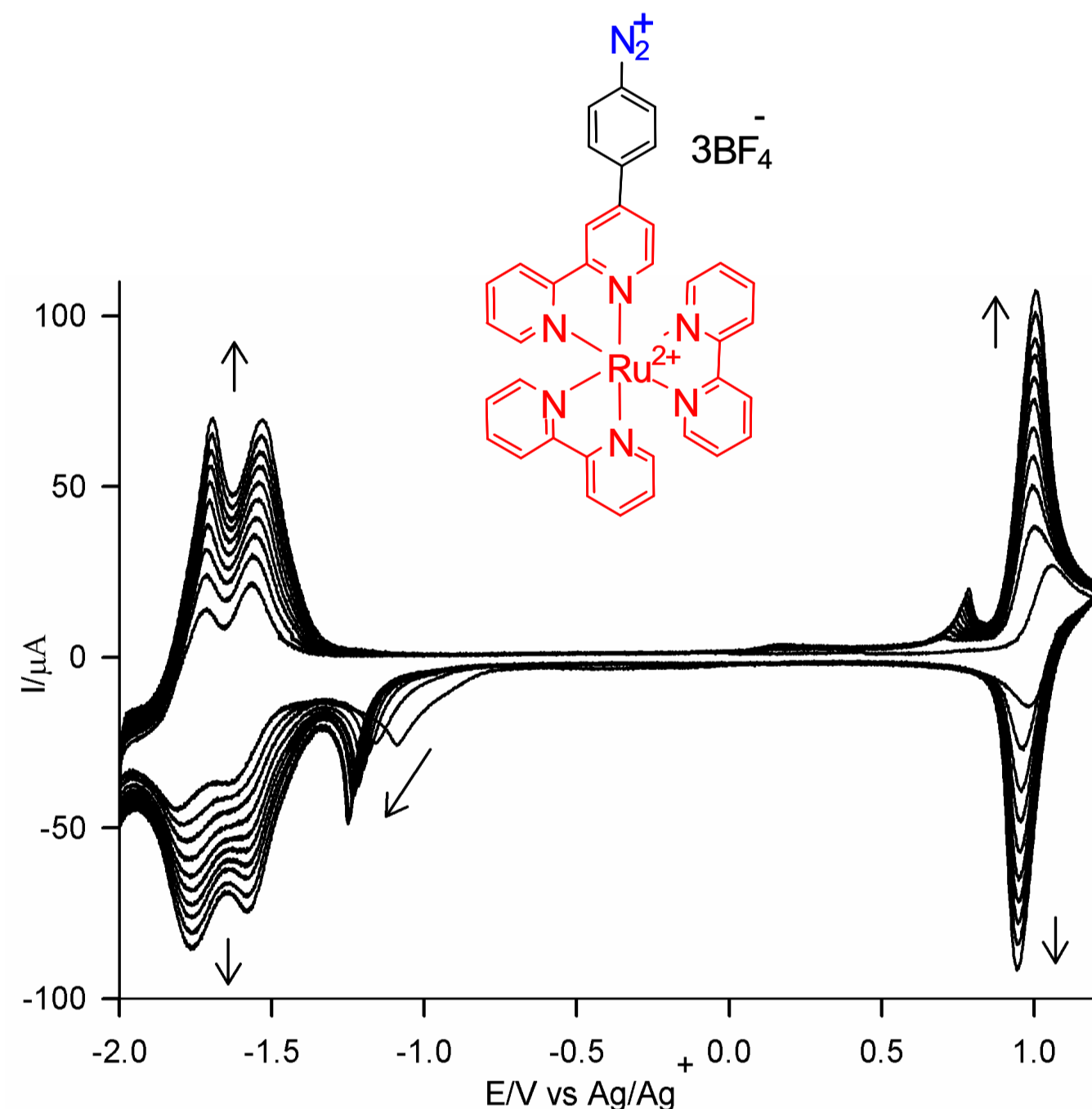
Nouveaux sels de diazonium de complexes métalliques



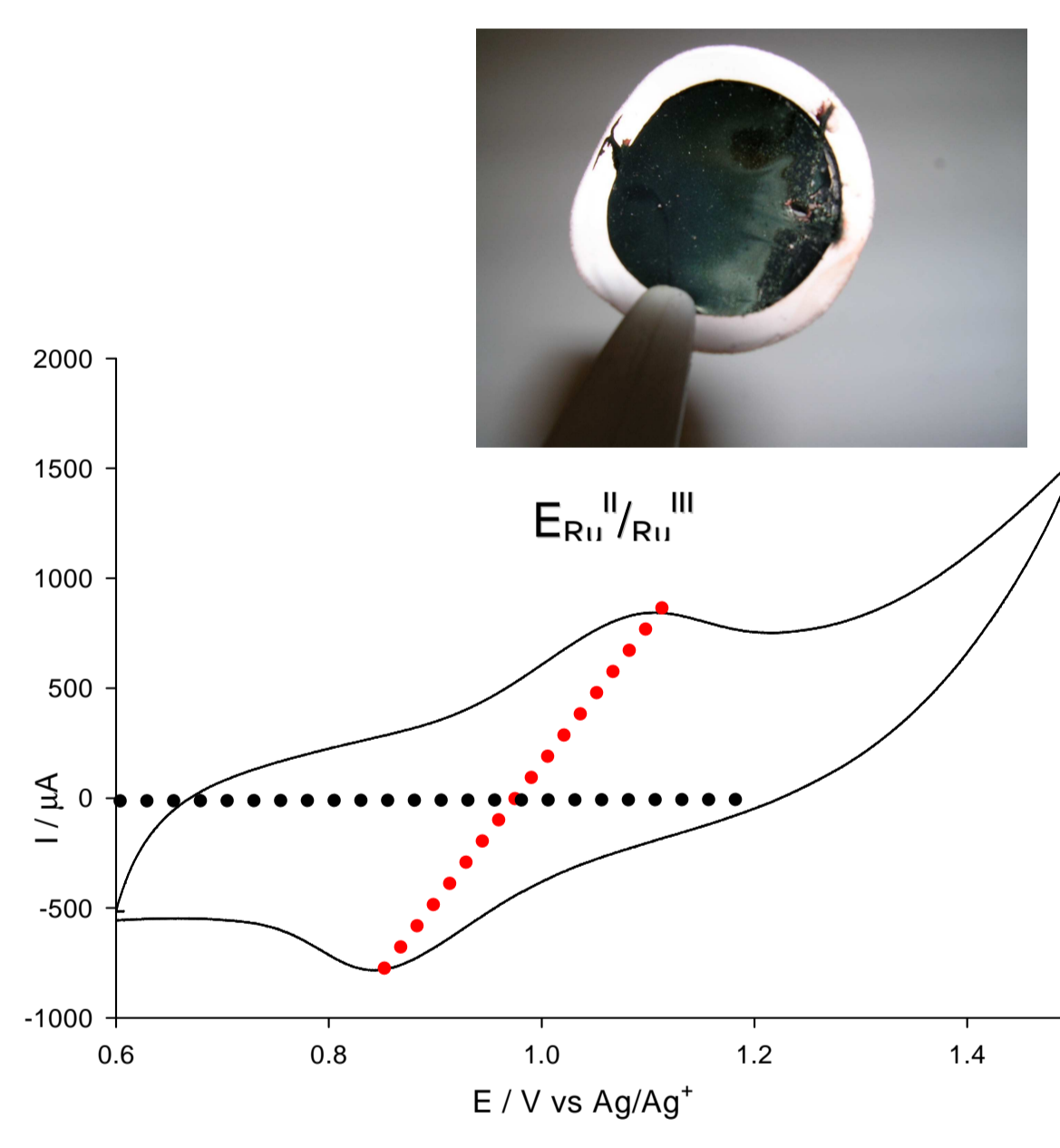
Greffage électrochimique



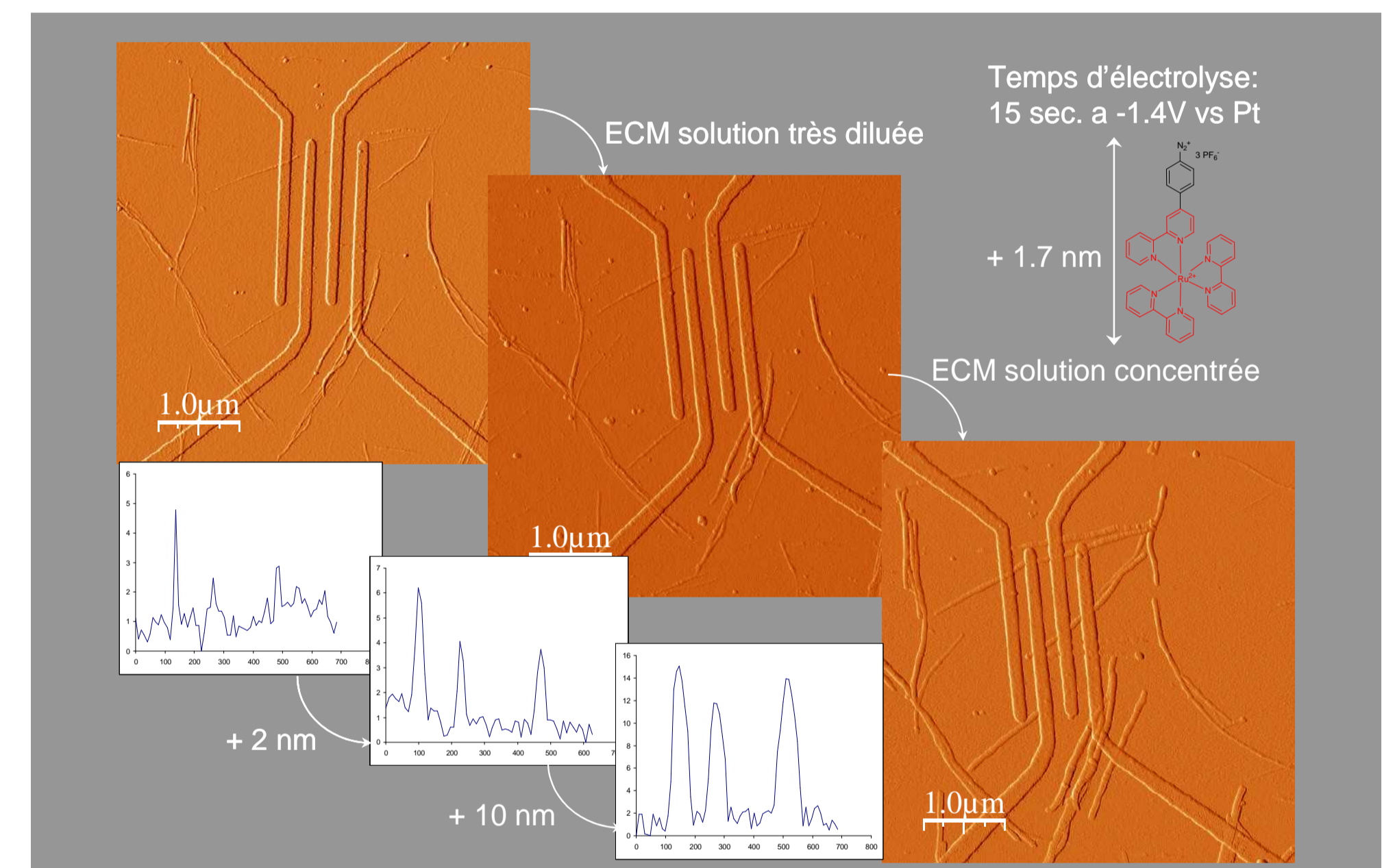
Carbone vitreux



Mat de NTCs

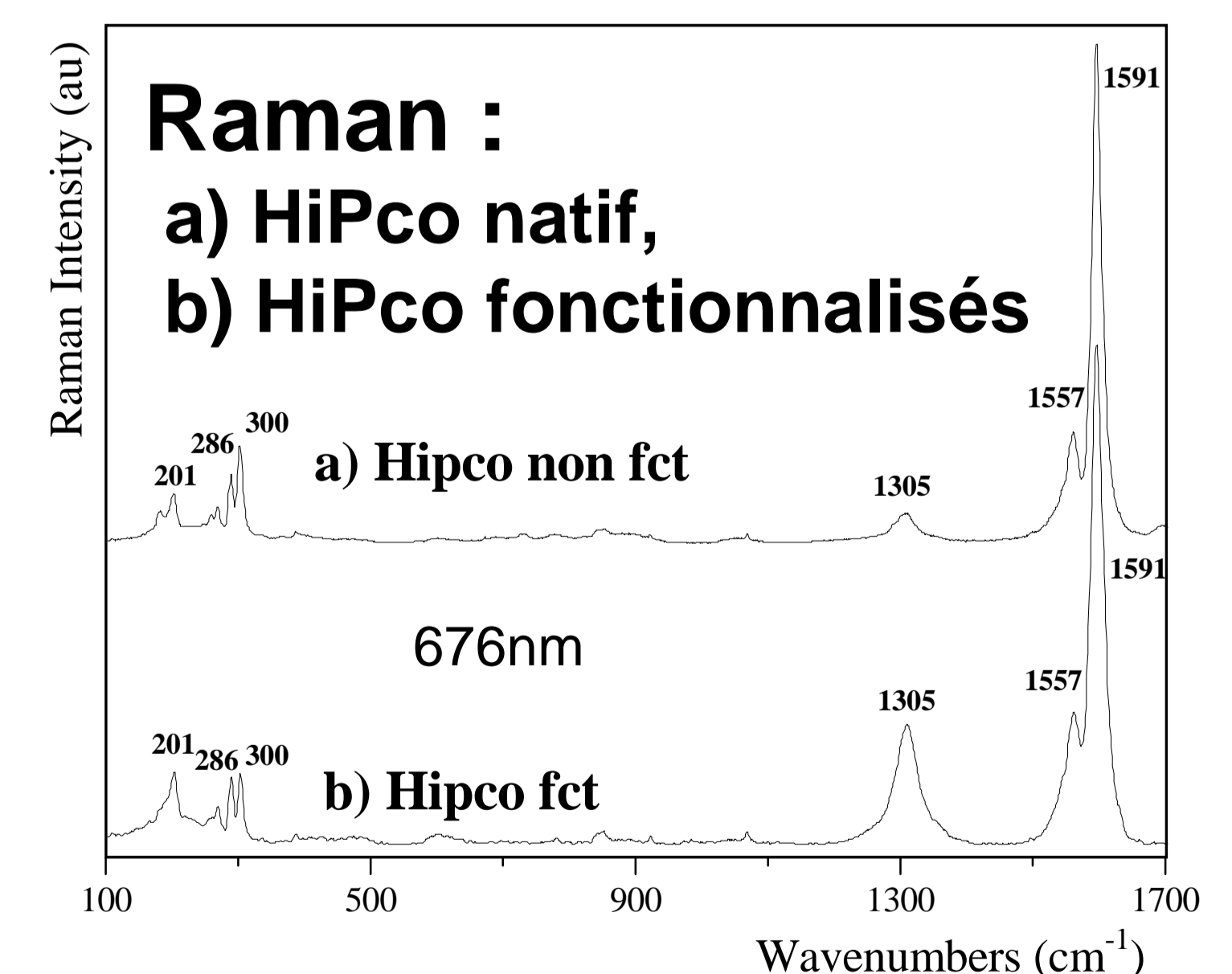
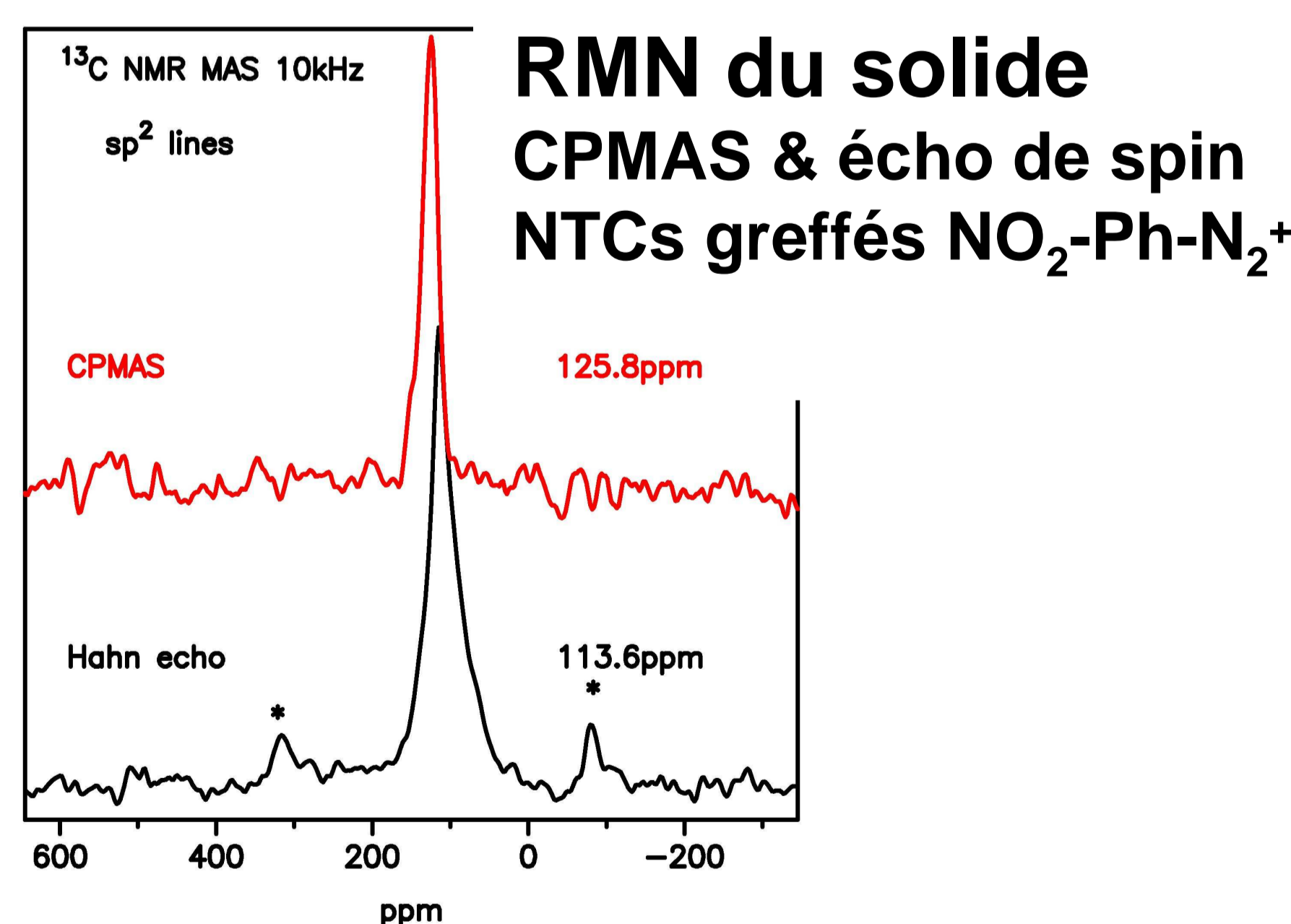
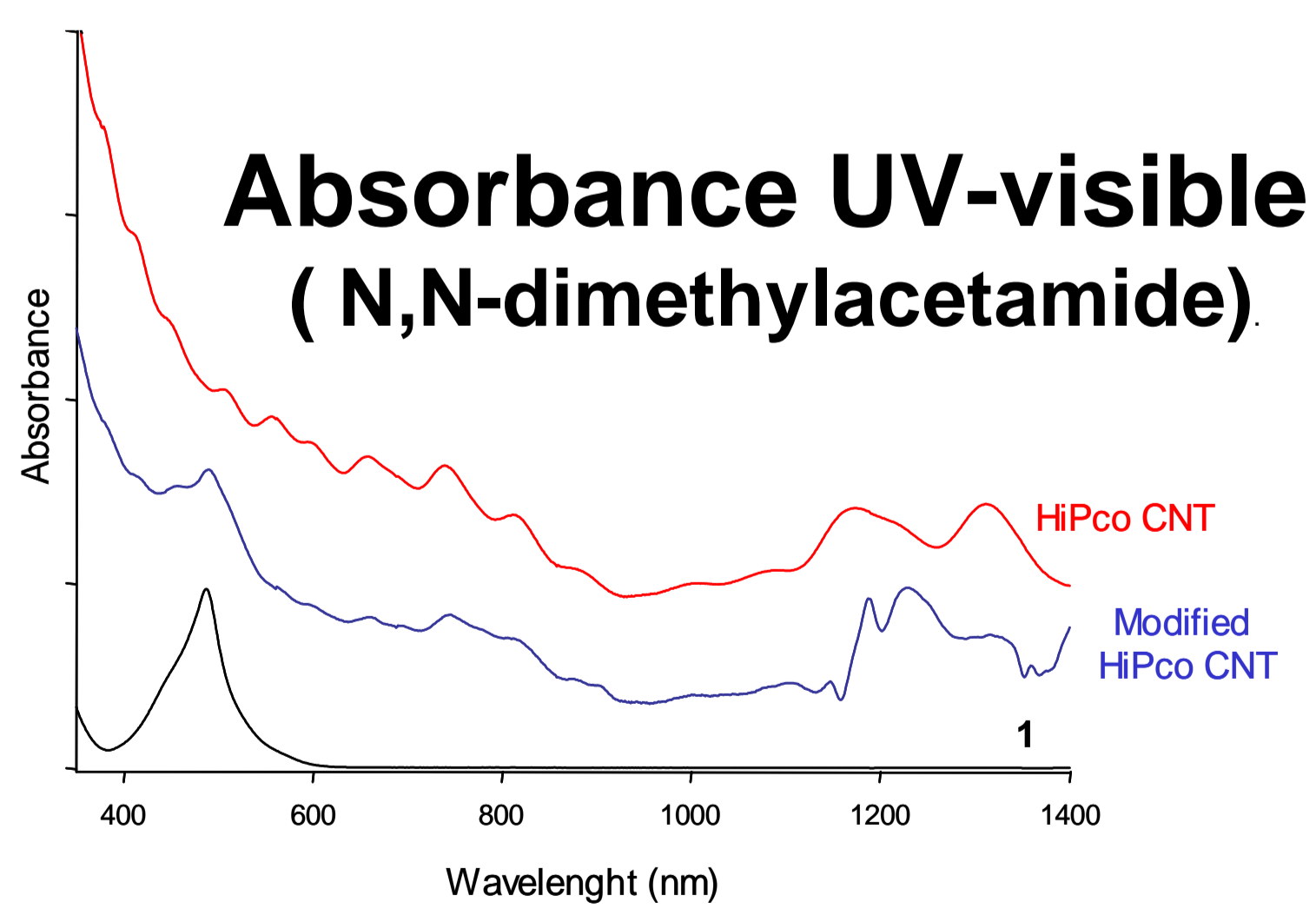


NTC unique



Coll. M. Burghard (Max Planck Stuttgart)

Caractérisations



Conclusion (2 ans) : Synthèse de nouveaux sels de diazonium de complexes métalliques photosensibles (brevet déposé, publication J. Mater. Chem. soumise) – greffage électrochimique sur mat 2D de NTCs et NTC unique – caractérisations XPS, Raman