



電化學實驗室

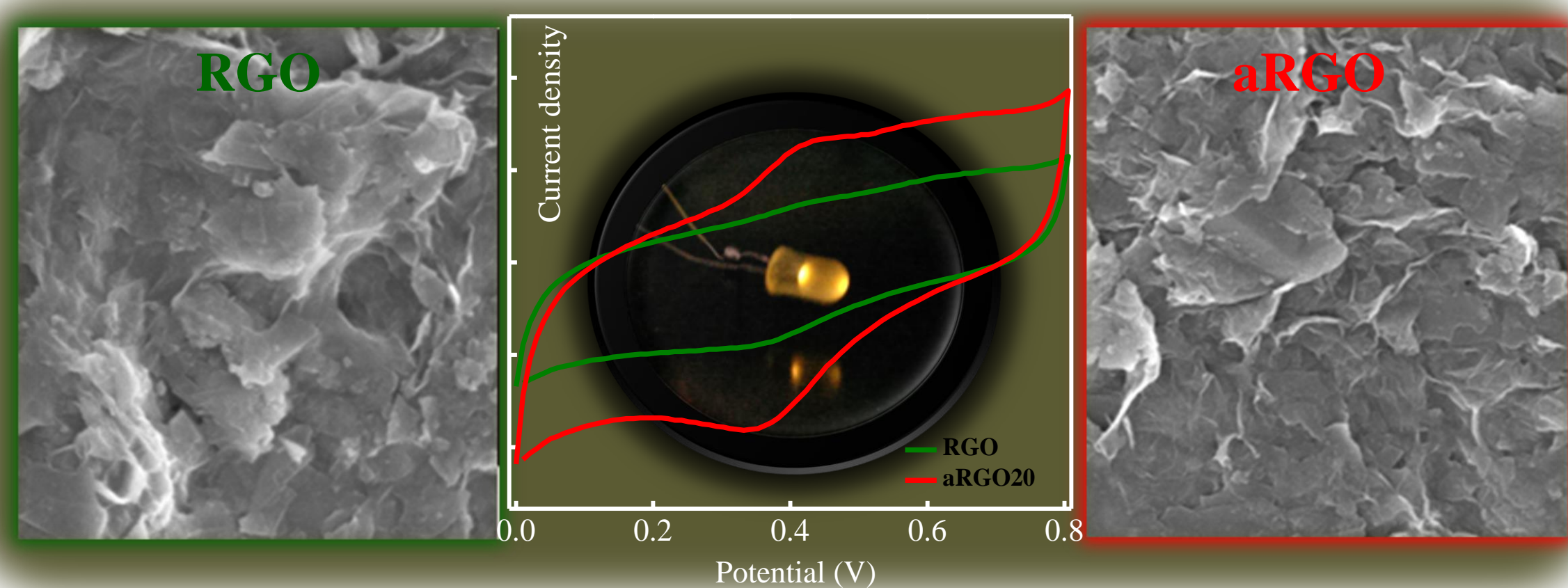
Electrochemical Laboratory

指導教授：張漢威 老師 實驗室位置：A2-433 實驗室
Address: 2, Lienda, Miaoli 36063, Taiwan, R.O.C, TEL:037-382216, FAX:037-382189, hwchang@nuu.edu.tw

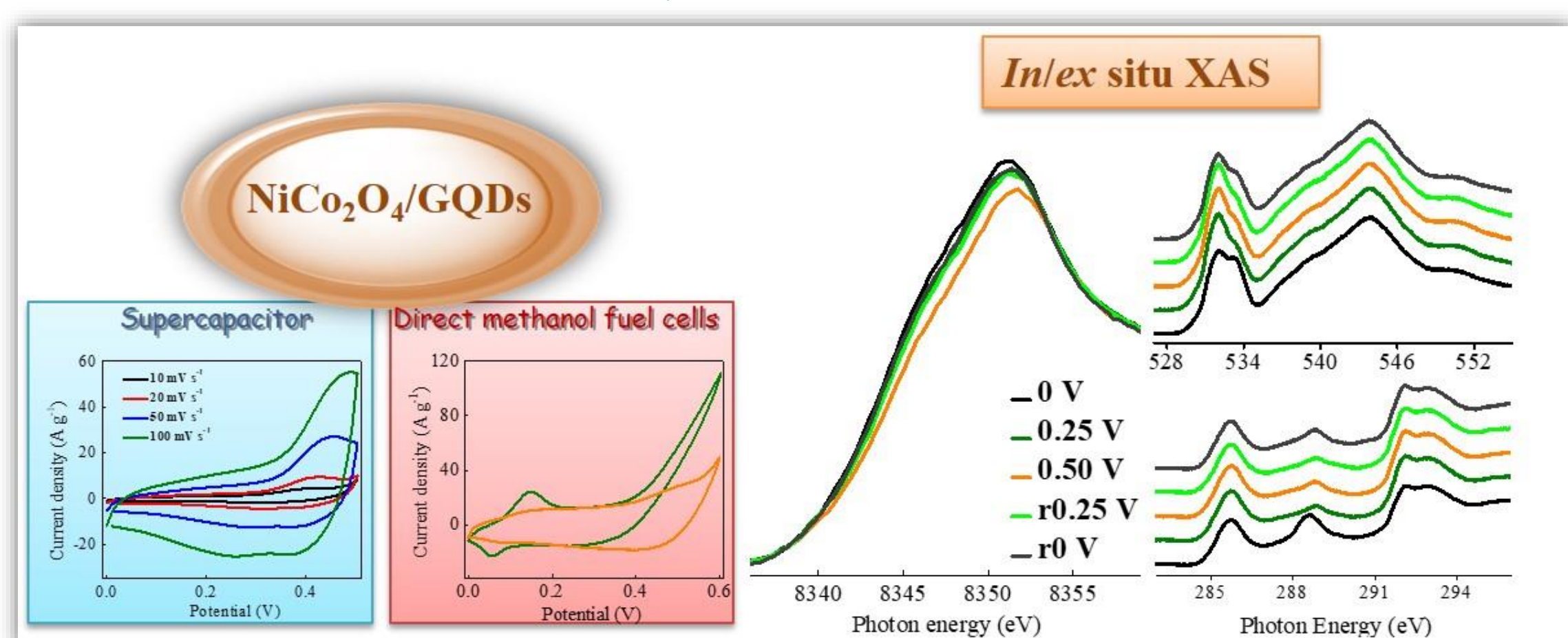
研究方向：電化學能源技術、電化學感測器、奈米材料與應用、同步輻射

電化學能源技術

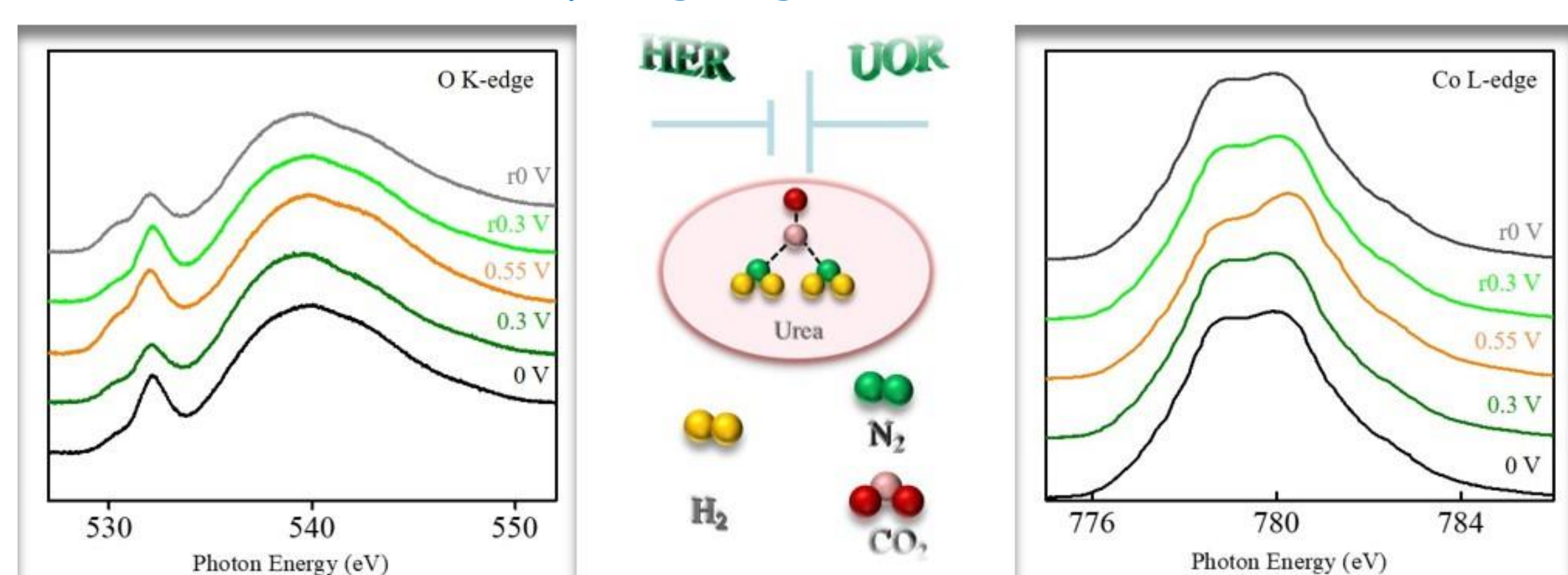
Supercapacitors



Fuel cells

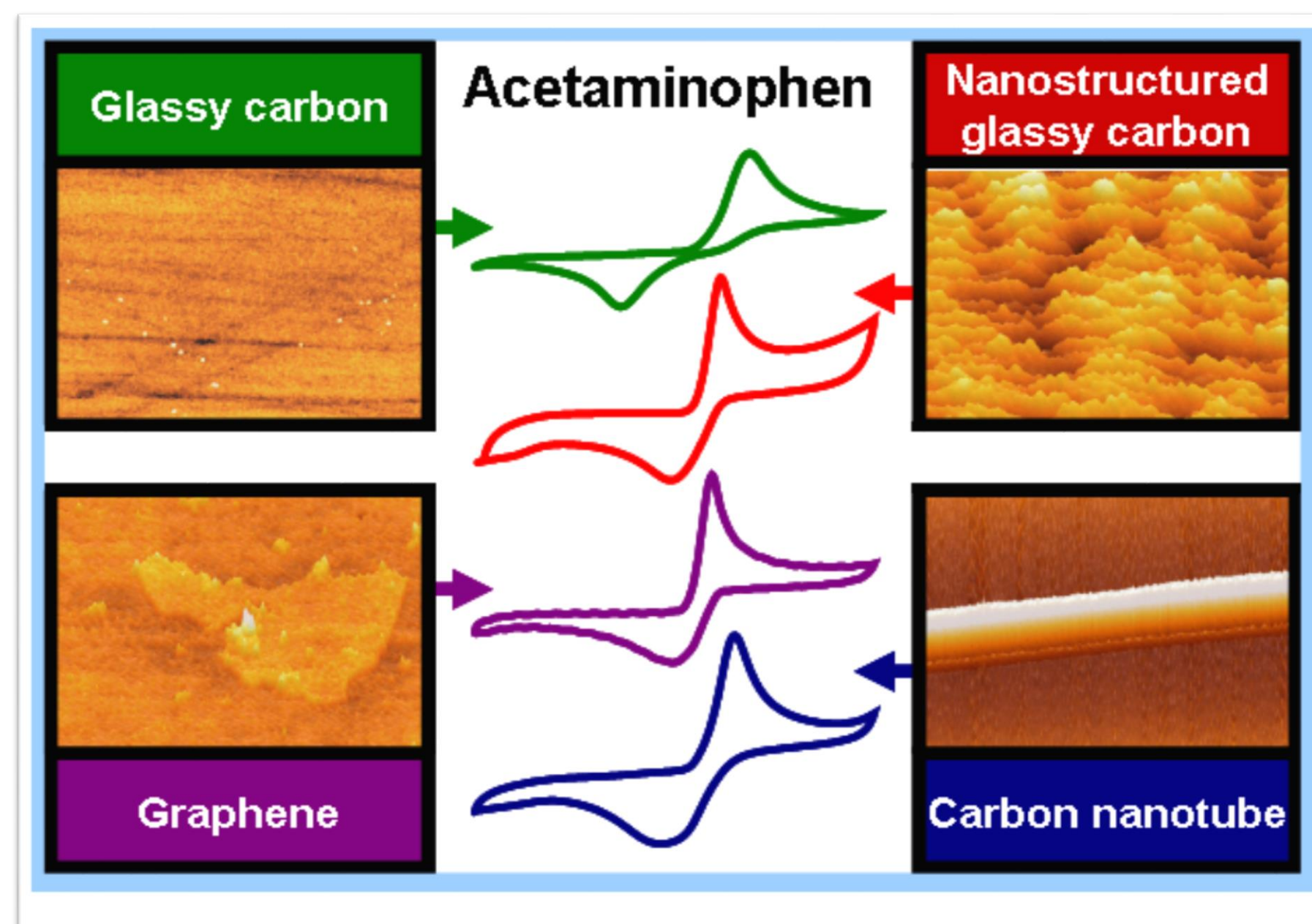


Hydrogen generation

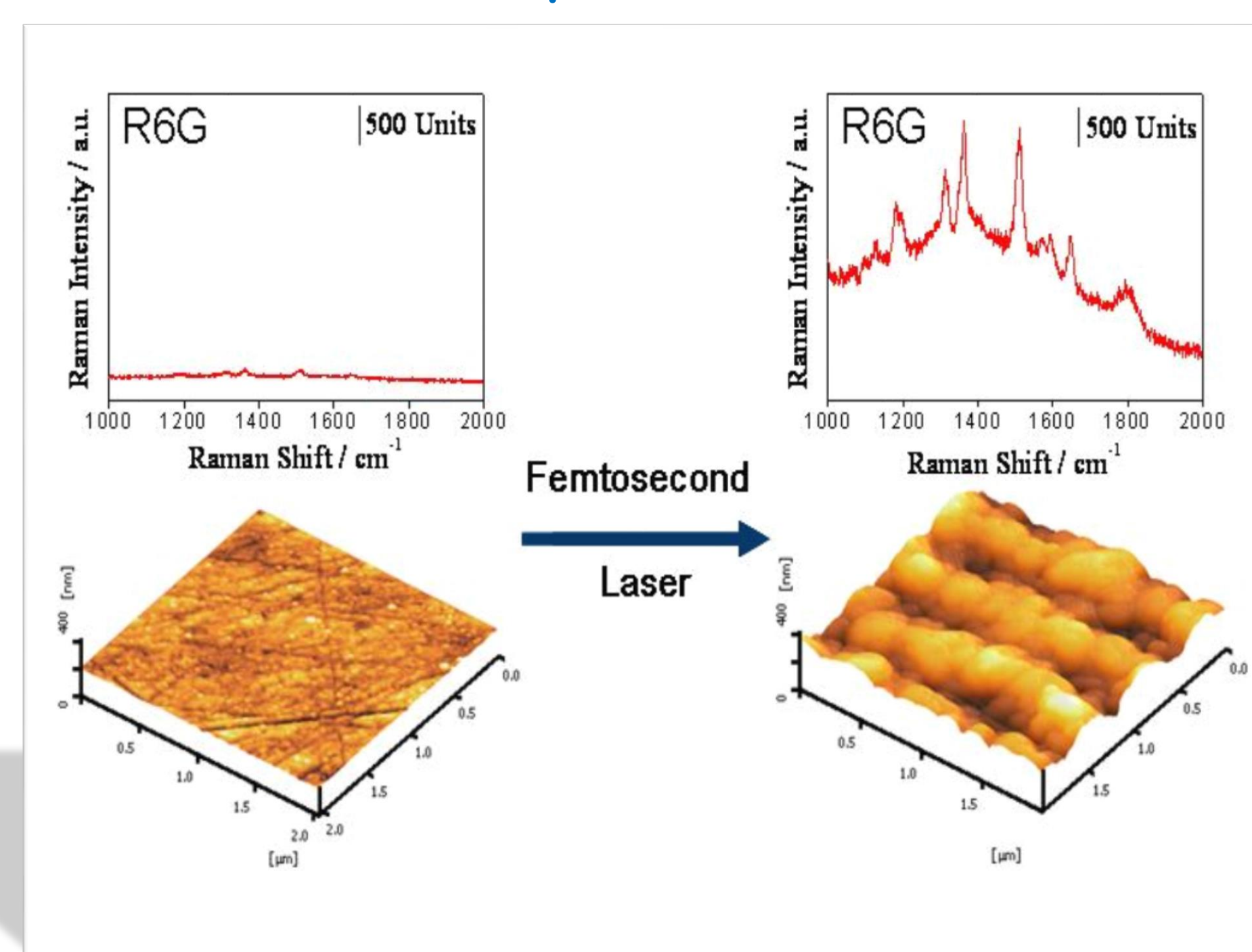


電化學感測器

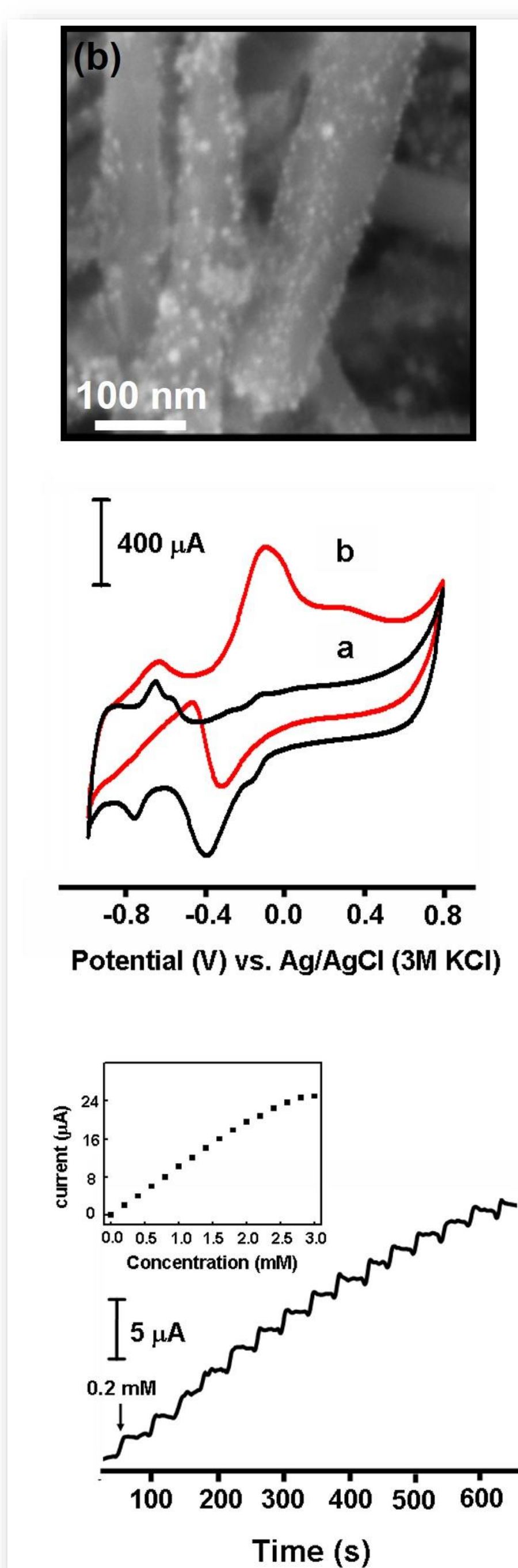
Chemical sensor



Optic sensor

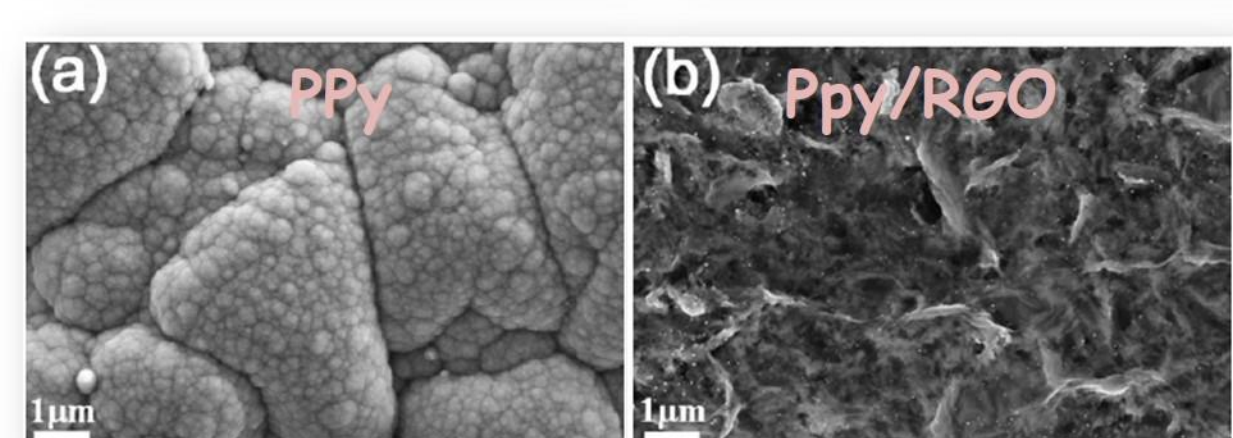
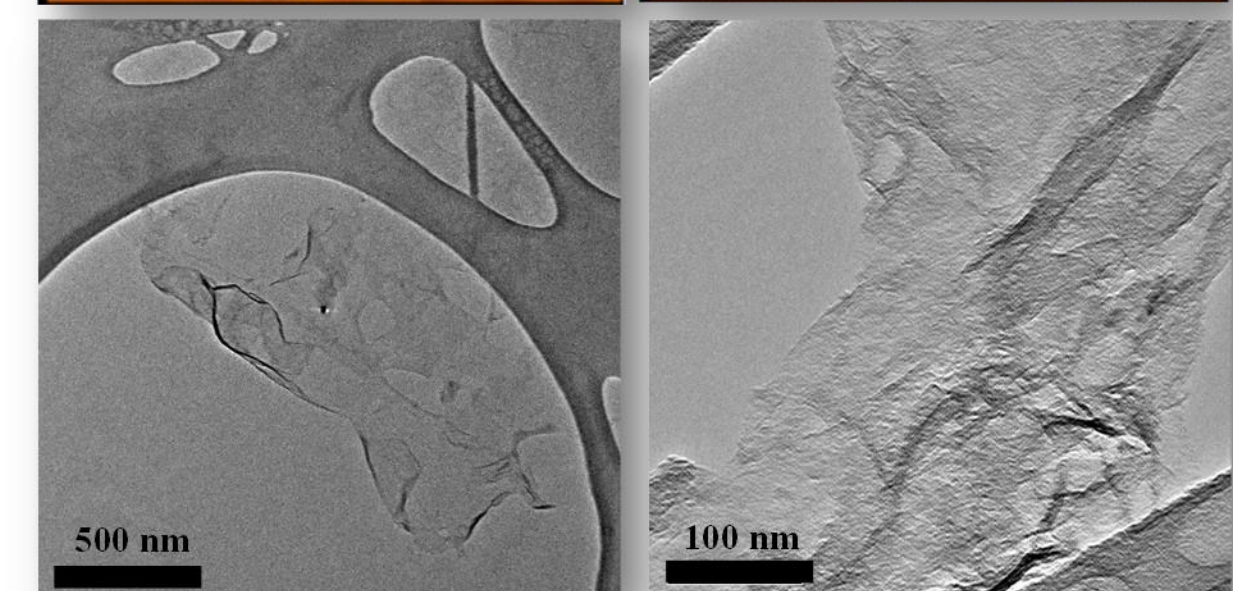
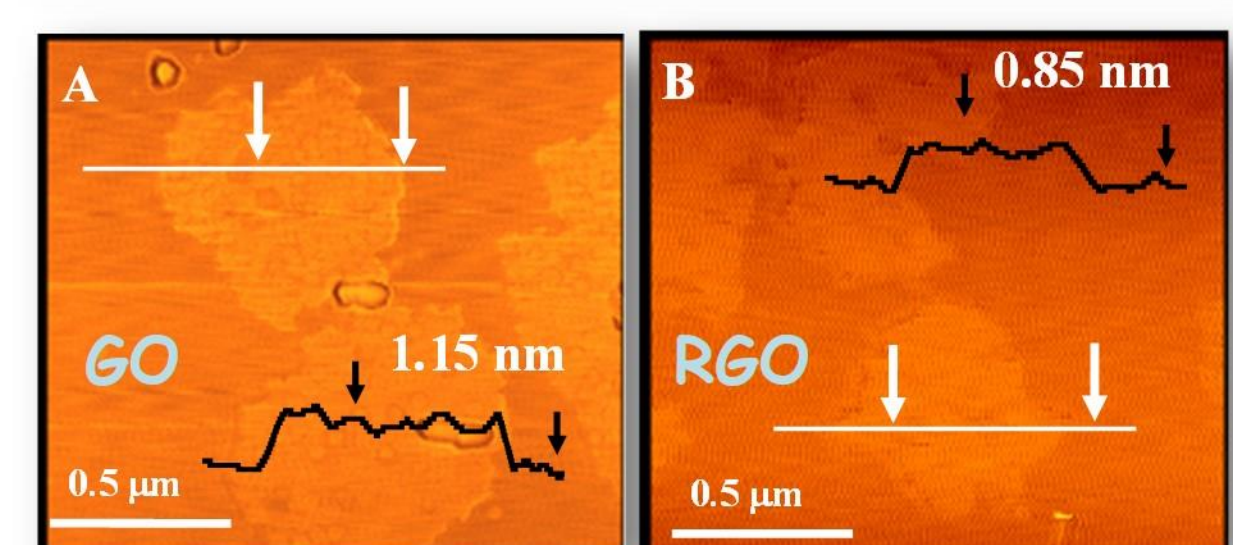
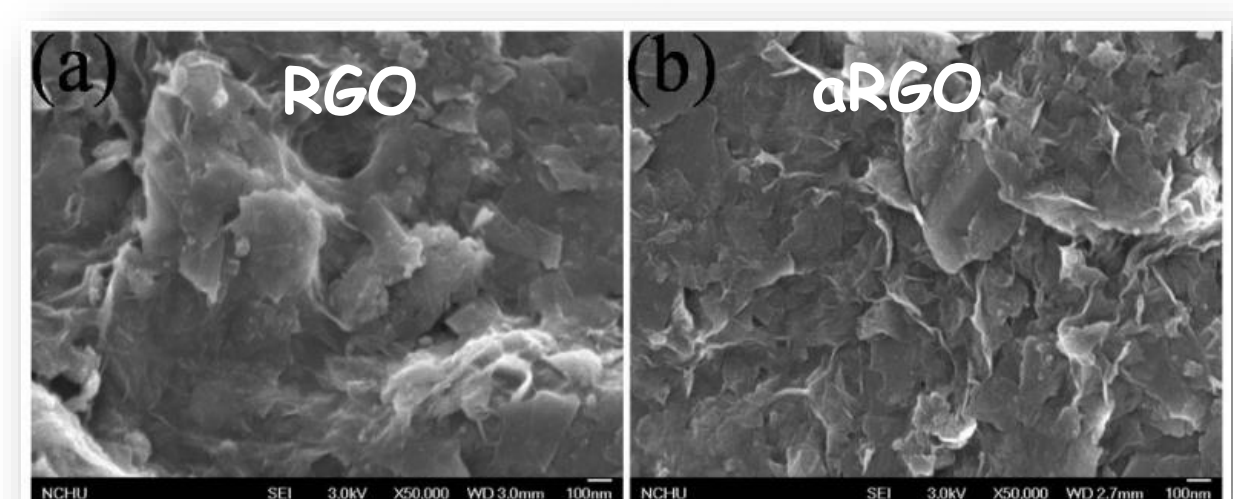
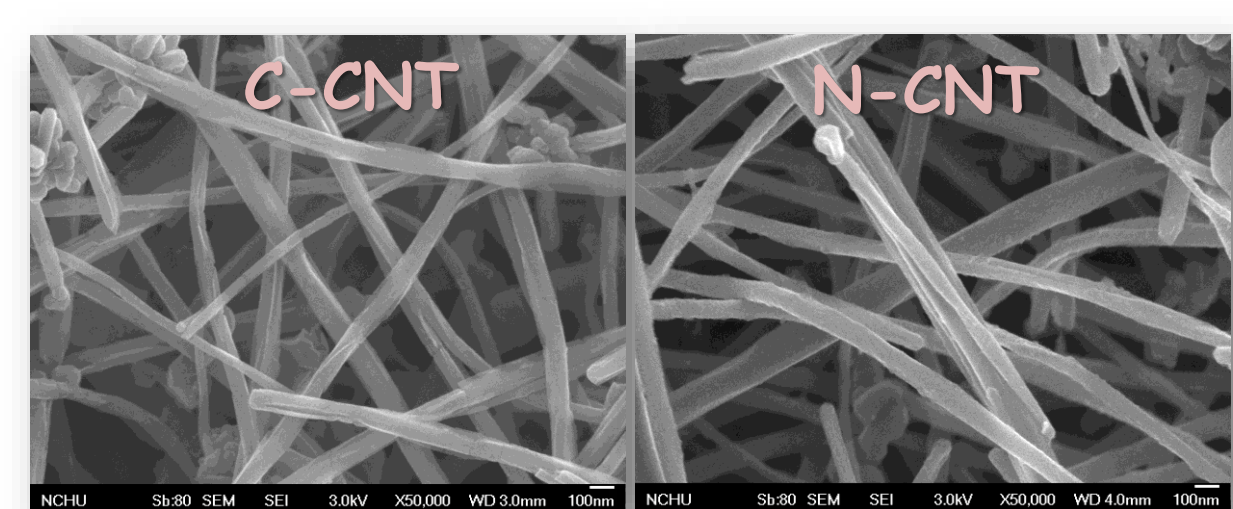


Biosensor

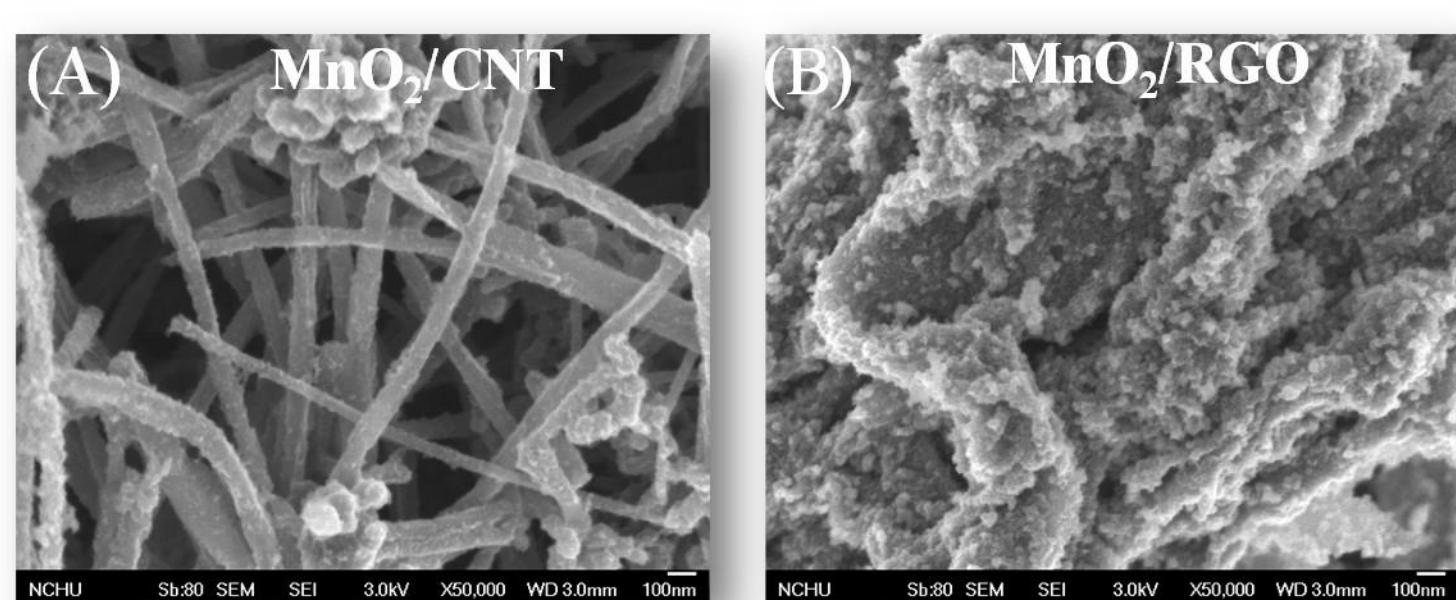
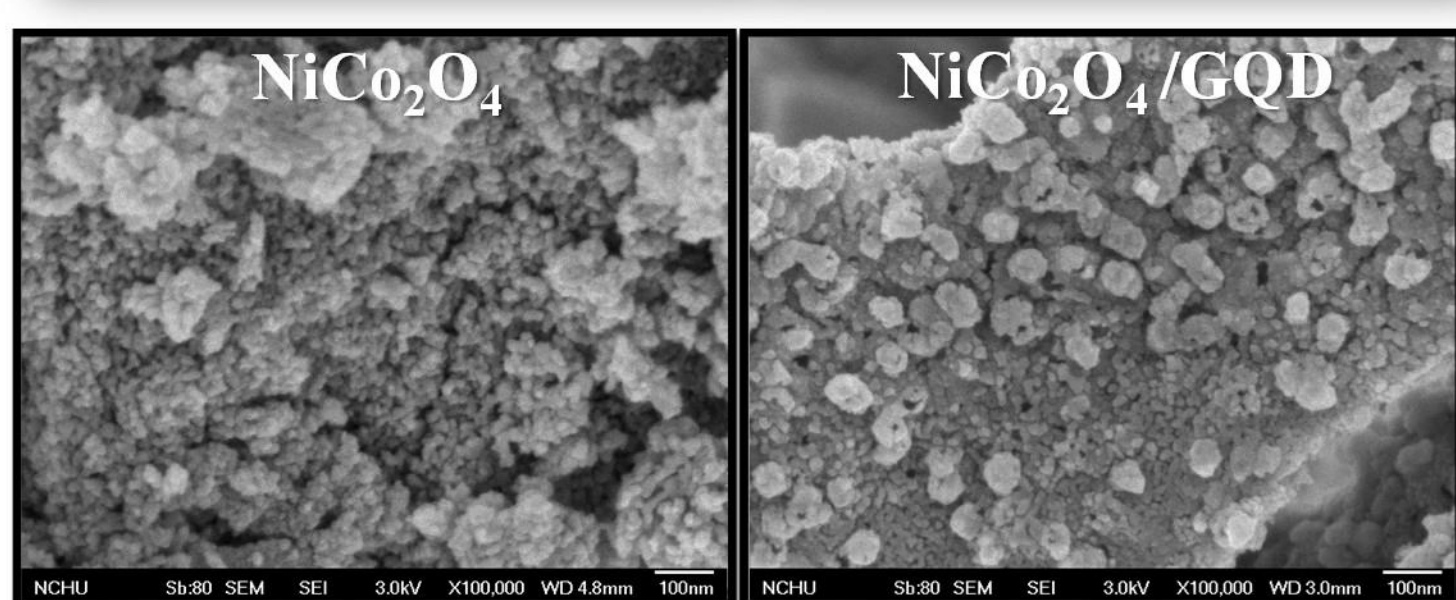
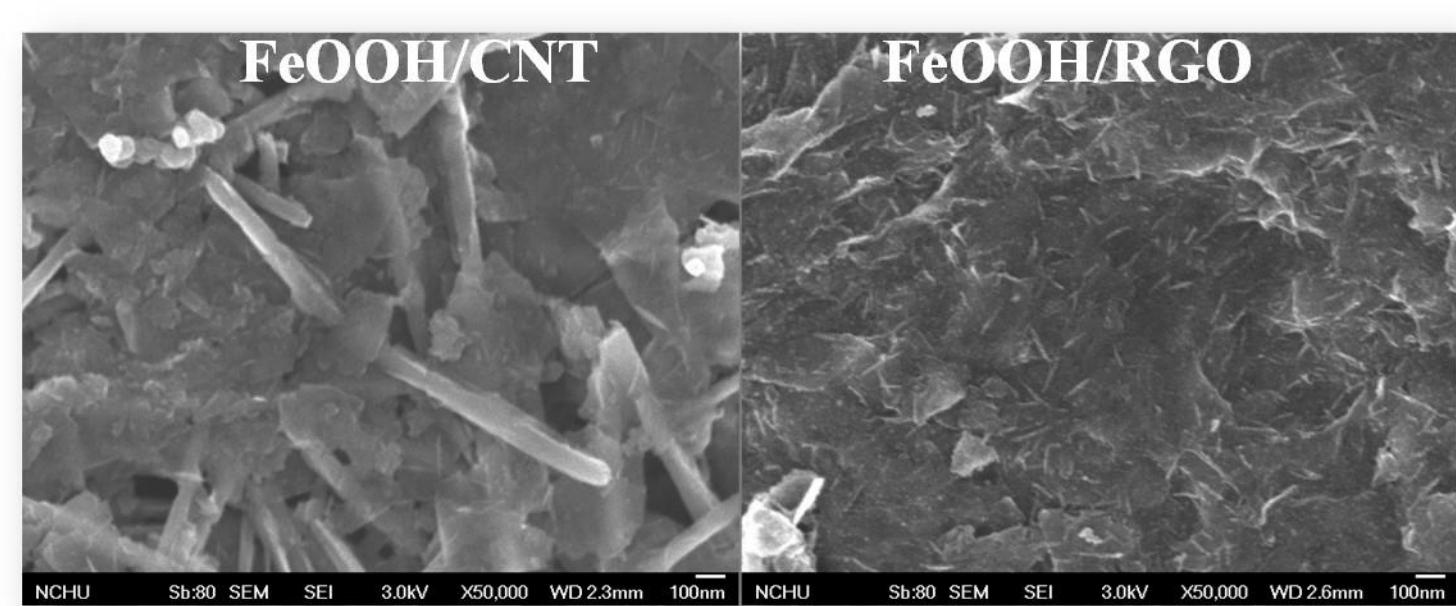


奈米材料與應用

Carbon materials



Transition metal oxide/carbon materials



Energy applications Sensor applications

Supercapacitor

Hydrogen generation

Battery

Fuel cell

Solar cell

Biosensor

Chemical sensor

Immunosensor

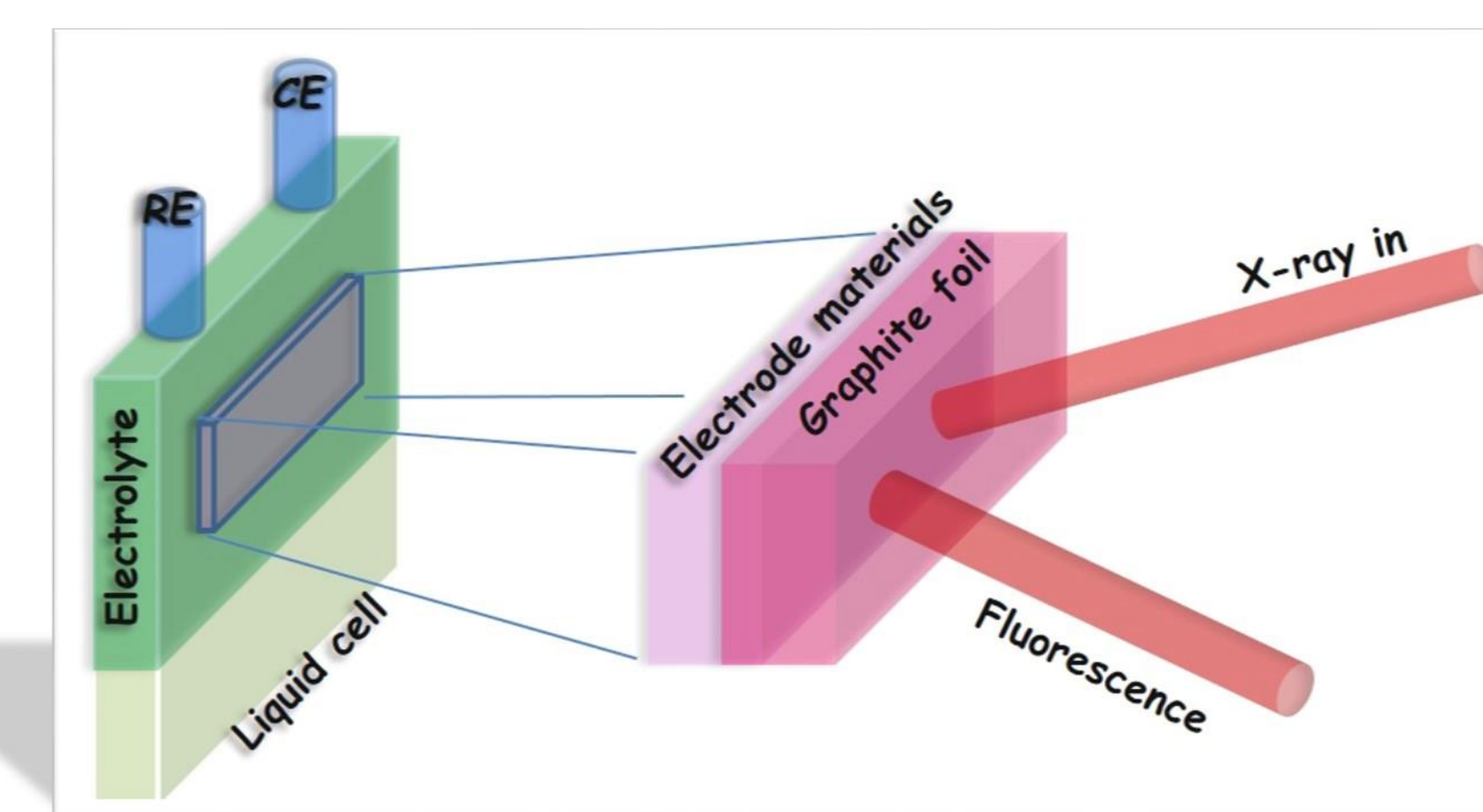
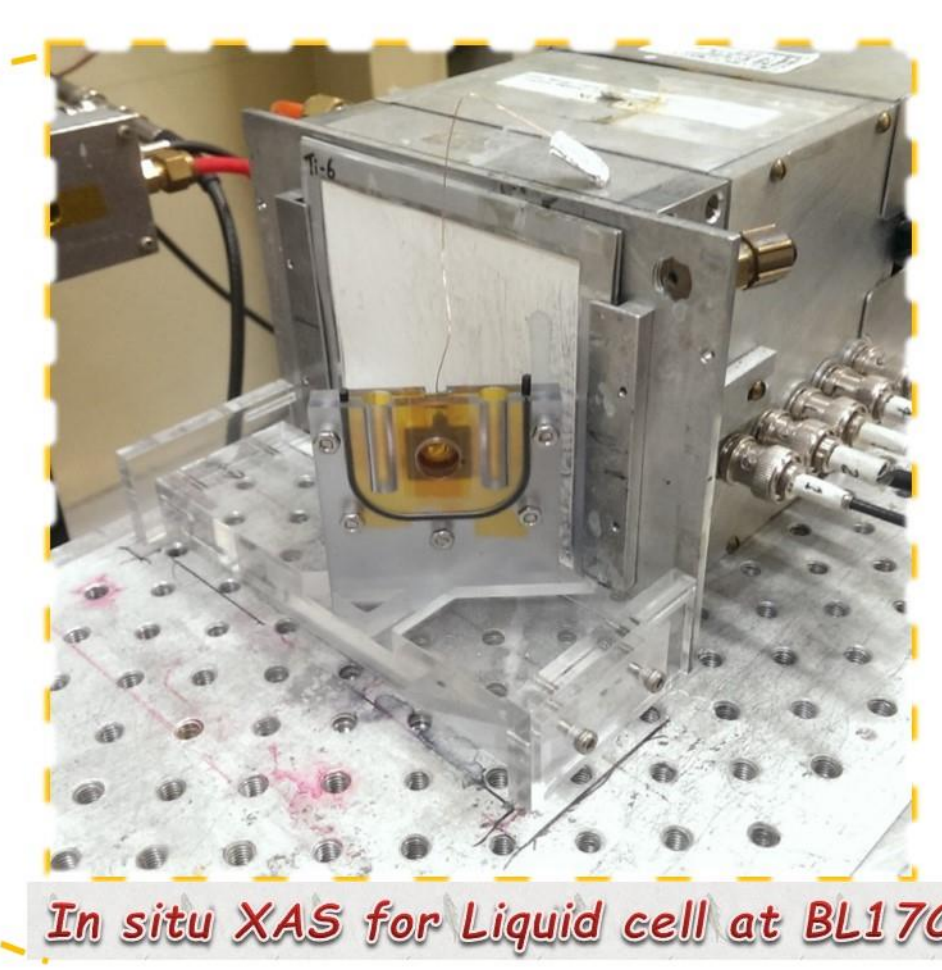
Optic sensor

同步輻射

National Synchrotron Radiation Research Center, Taiwan (NSRRC)



In situ X-ray spectroscopy



In situ X-ray liquid cell

