

SUPPORTING INFORMATION

***In situ* measurements of Li-ion batteries electrode materials conductivity: application to Li_xCoO_2 and conversion reactions**

F. SAUVAGE, J-M. TARASCON, E. BAUDRIN*

Laboratoire de Réactivité et Chimie des Solides, UMR CNRS 6007

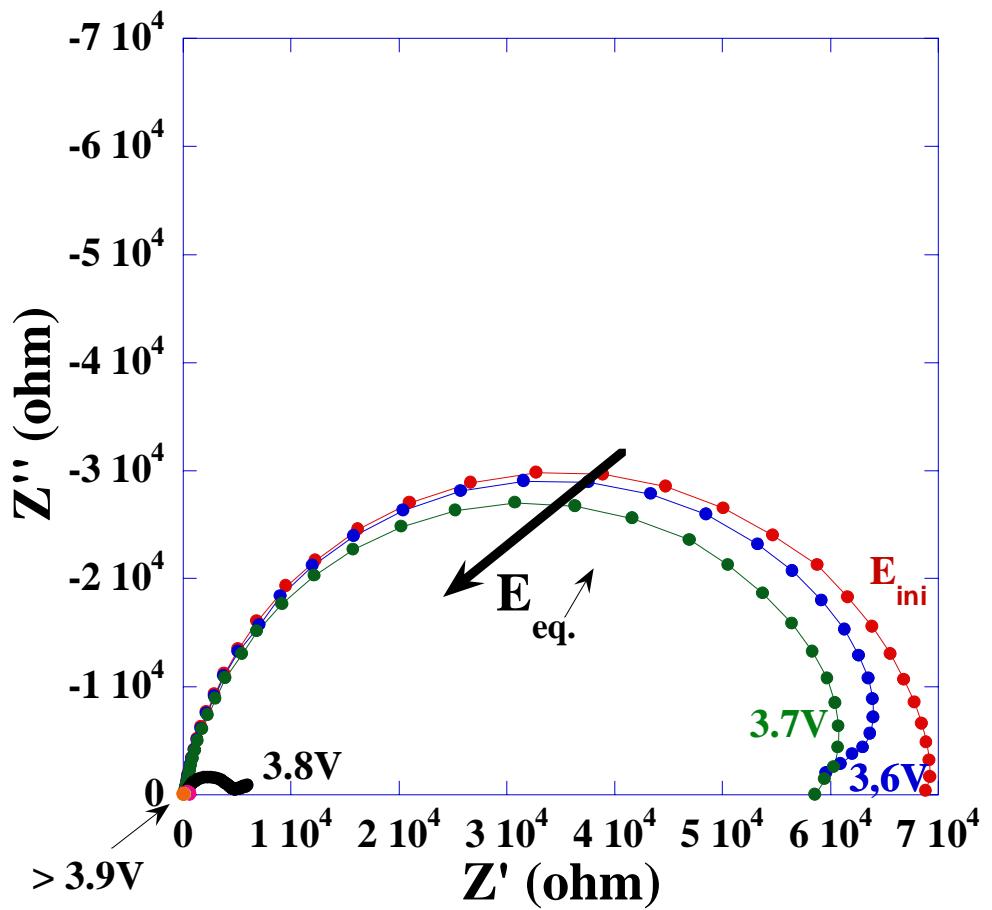
Université de Picardie Jules Verne

33 rue St. Leu, 80039 Amiens CEDEX France

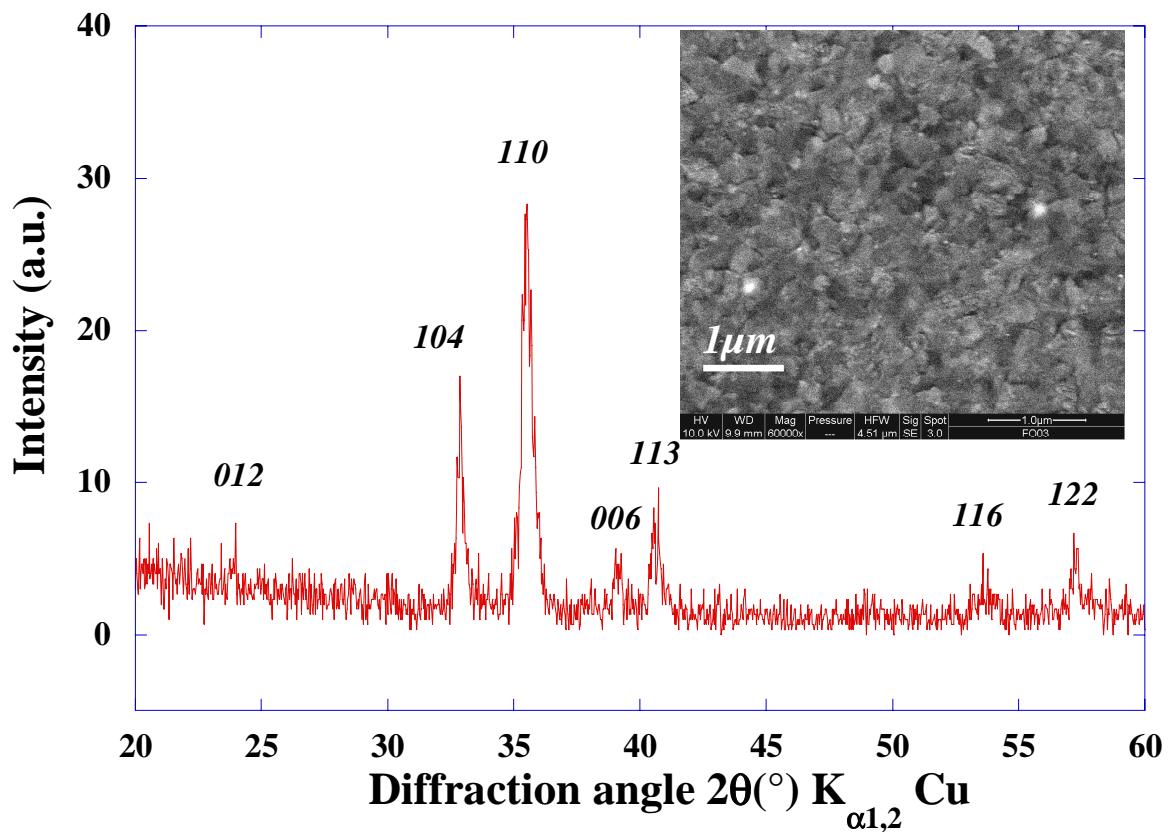
Fig. S1: Evolution at different states of charge of the impedance spectrum recorded using three-electrode configuration of Li_xCoO_2 thin film

Fig. S2: X-Ray Diffraction pattern of $\alpha\text{-Fe}_2\text{O}_3$ thin film grown upon Si (001) single crystal substrate by PLD and S.E.M. micrograph showing the film morphology.

Fig. S3: Impedance spectra recorded at different states of charge/discharge during lithium insertion in $\alpha\text{-Fe}_2\text{O}_3$ electrodes.



SAUVAGE et Al. Fig.S1



SAUVAGE et Al. Fig. S2

