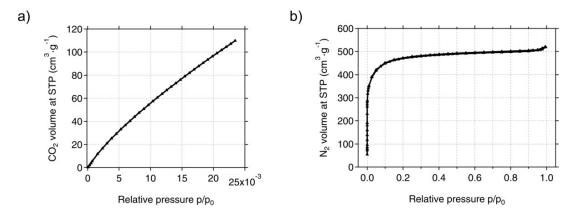
A carbon nanopore model to quantify structure and kinetics of ion electrosorption with in situ small angle X-ray scattering C. Prehal, C. Koczwara, N. Jäckel, H. Amenitsch, V. Presser, O. Paris **Electronic Supplementary Information**

Sorption Isotherms

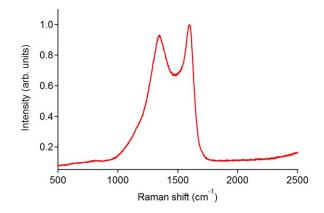


- 3 **Supplementary Figure 1:** Carbon dioxide isotherms (a) and nitrogen isotherms(b) carried out at 273 K
- 4 and 77 K, respectively,.

2

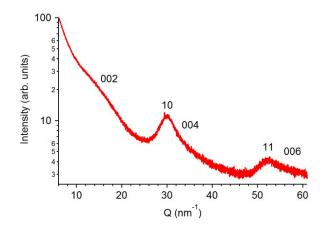
6

5 Raman scattering



7 **Supplementary Figure 2:** Raman spectrum recorded at 532 nm.

8 X-ray diffraction



10 **Supplementary Figure 3:** X-ray diffraction profile (scattering intensity vs. scattering vector length Q).