

Supplementary Electronic Information

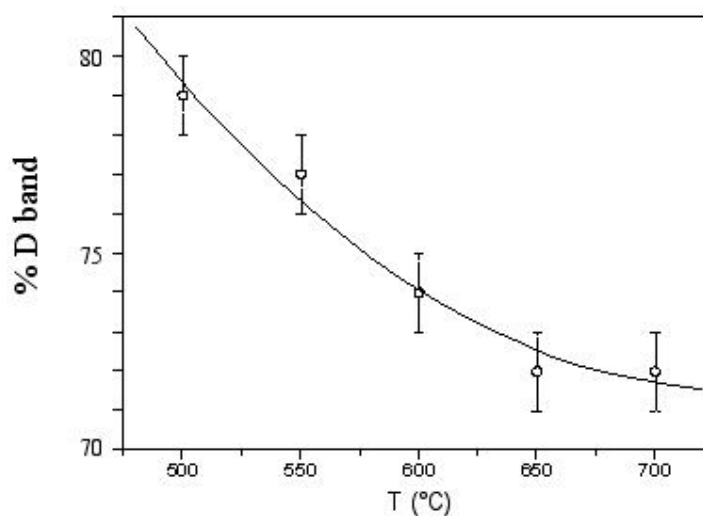


Fig. 1 SEI

Evolution of the D and G band as a function of the temperature of carbonisation. Raman spectra were recorded in the back scattering geometry on a Jobin-Yvon T64000 spectrometer equipped with a liquid nitrogen cooled CCD detector. The excitation beam is provided by the 514.5 nm line of an argon ion laser (Spectra physics 2017). All the conditions and data fit were reported in our previous work.¹⁹

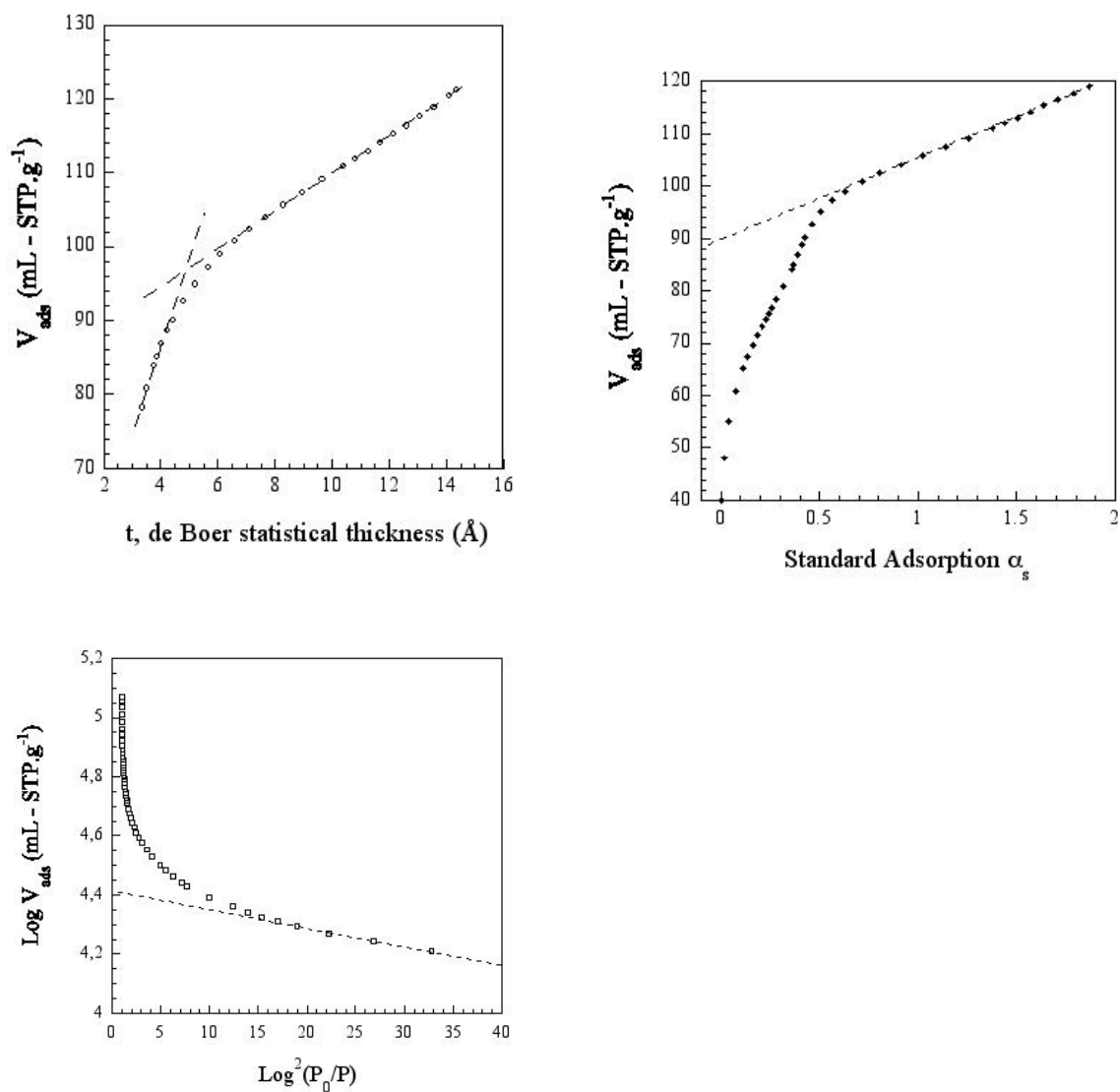


Fig. 2 SEI

Analysis of the microporosity of F-100 by a) t -plot, b) α_s analysis, and c) Dubinin-Astakhov analysis.

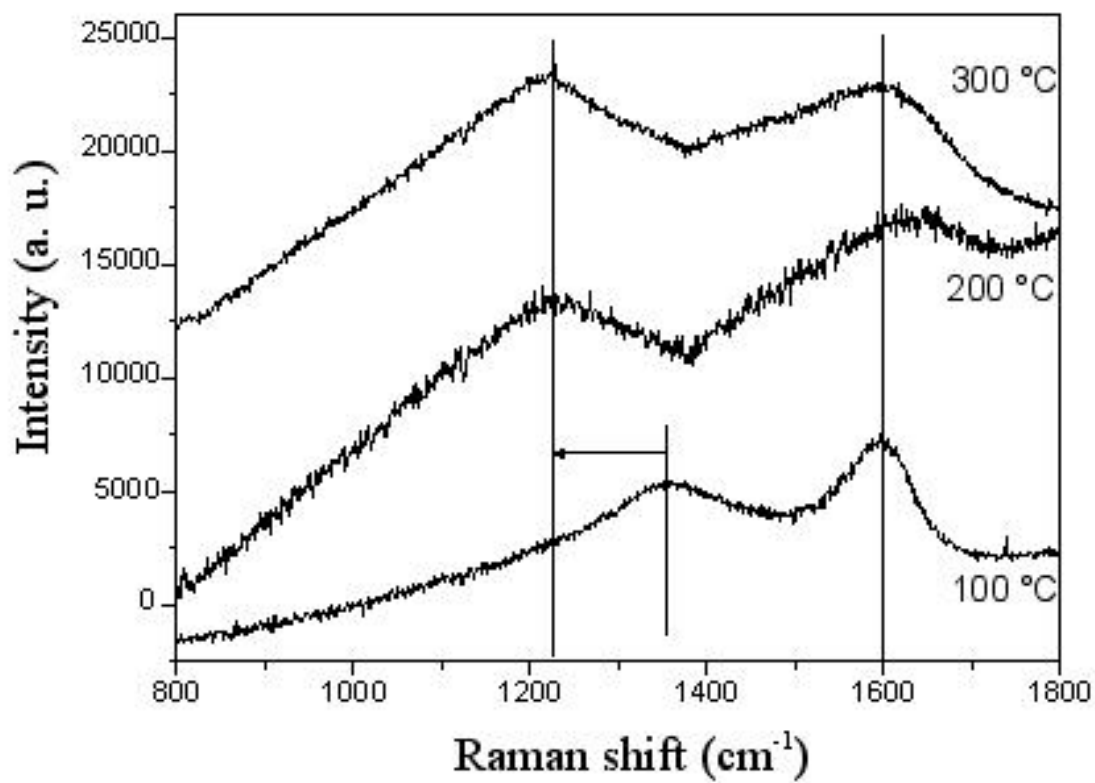


Fig. 3 SEI
Raman spectra of the fluorinated carbon replica.

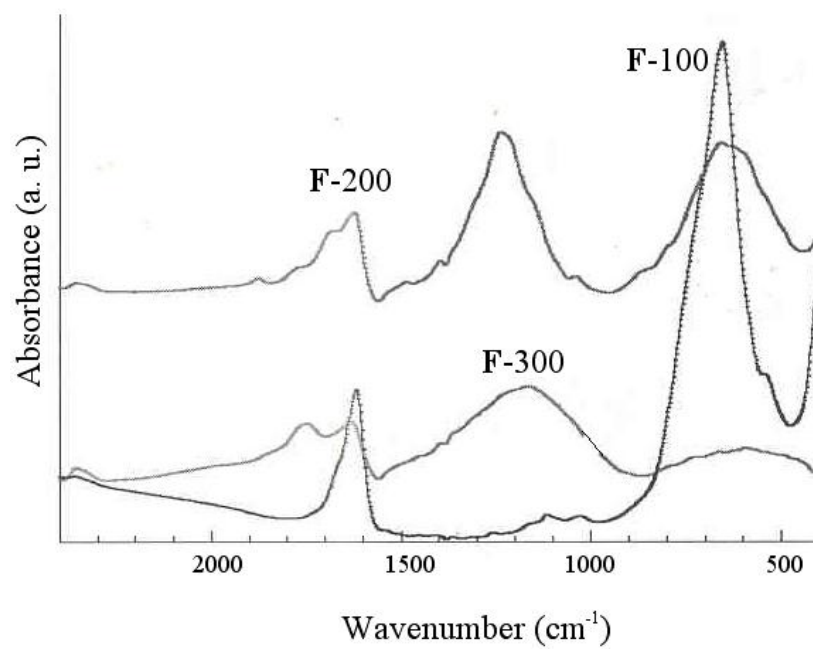


Fig. 4 SEI
IR spectra of the fluorinated carbon replica.