

**Preparation of Pt/CNT thin-film electrodes by electrochemical potential pulse
deposition for methanol oxidation**

J. Quintero-Ruiz¹, R. Ruiz-Rosas^{2,3}, J. Quílez-Bermejo², D. Salinas-Torres¹, D. Cazorla-Amorós², E. Morallón¹.

¹Departamento de Química Física and Instituto de Materiales, Universidad de Alicante, Ap. 99, 03080 Alicante, Spain.

²Departamento de Química Inorgánica and Instituto de Materiales, Universidad de Alicante, Ap. 99, 03080 Alicante, Spain.

³Departamento de Ingeniería Química, Campus de Teatinos s/n, Universidad de Málaga, 29010 Málaga, Spain.

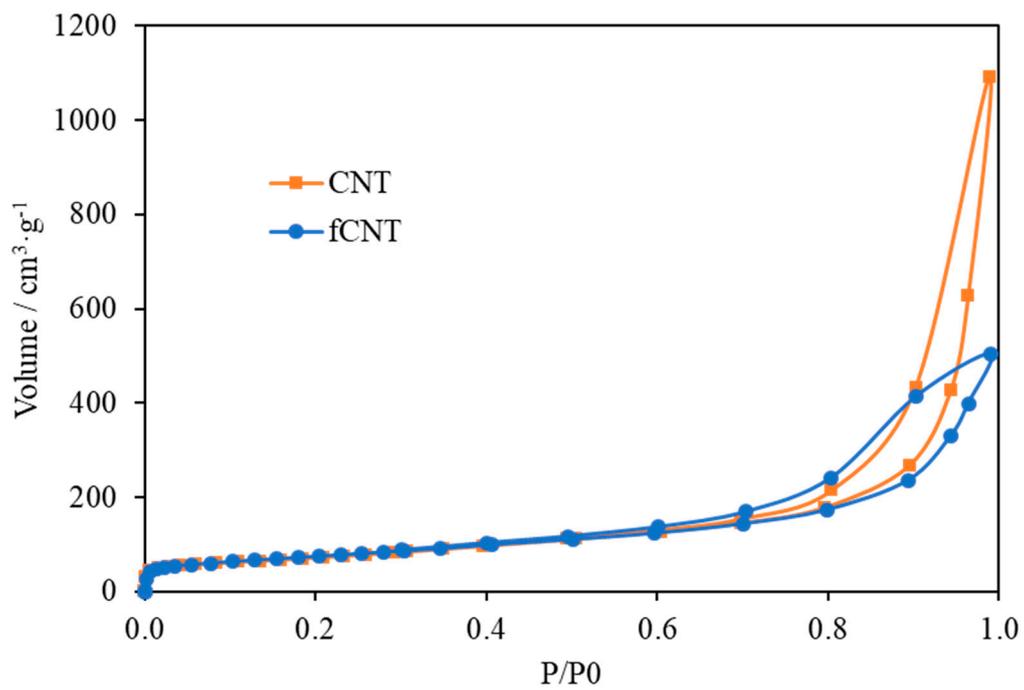


Figure S1: N_2 -adsorption isotherms at -196°C of CNT and fCNT samples.

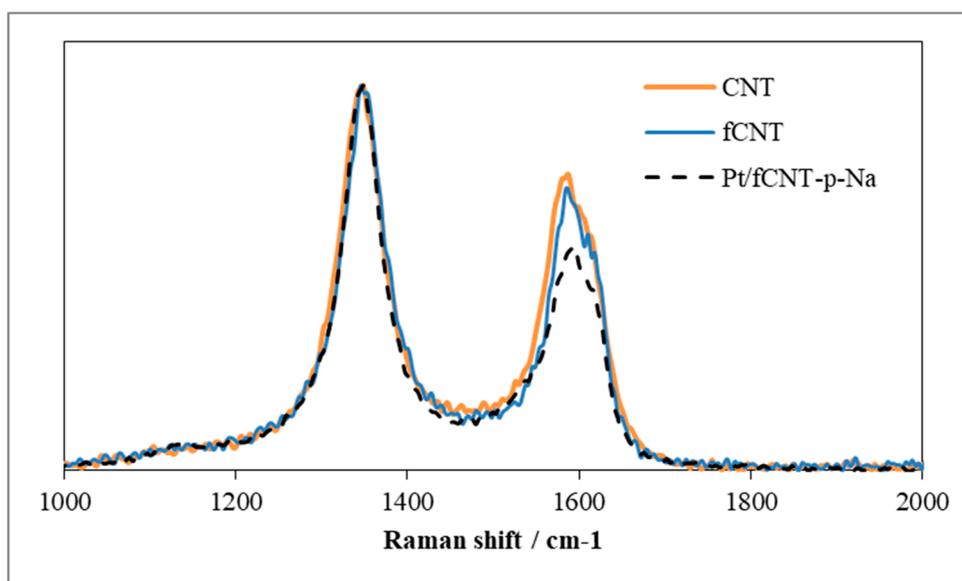


Figure S2: Raman spectra of CNT, fCNT, and Pt/fCNT-p-Na samples.

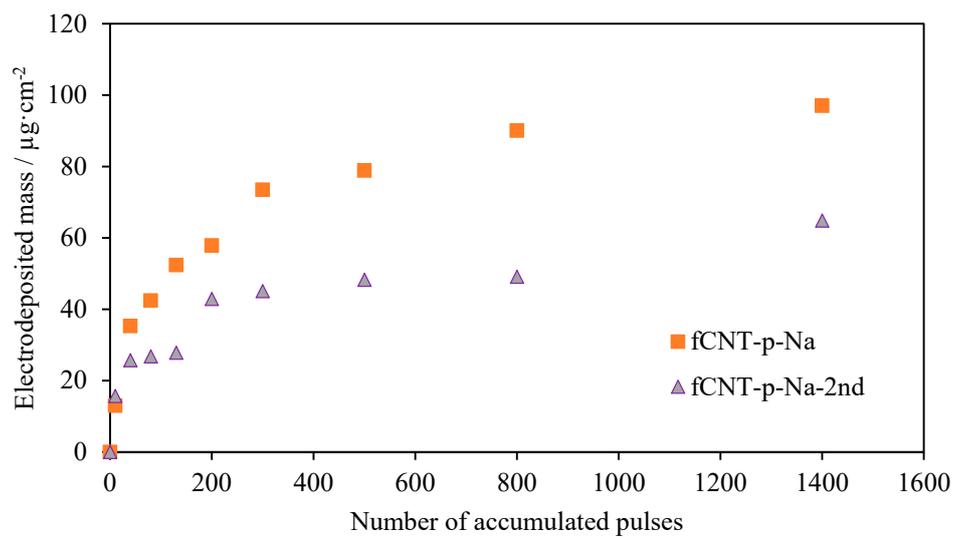


Figure S3: Electrochemically assisted deposited mass of *f*CNTs with the number of potential pulses for *f*CNT-p-Na by using a fresh dispersion (orange square) and a reused dispersion (violet triangle).

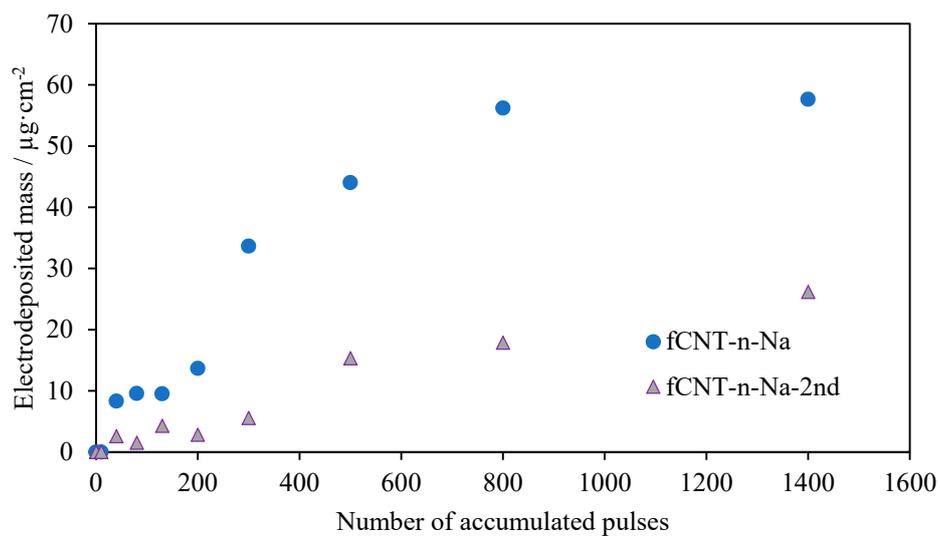


Figure S4: Electrochemically assisted deposited mass of *f*CNTs with the number of potential pulses for *f*CNT-n-Na by using a fresh dispersion (blue circle) and a reused dispersion (violet triangle).

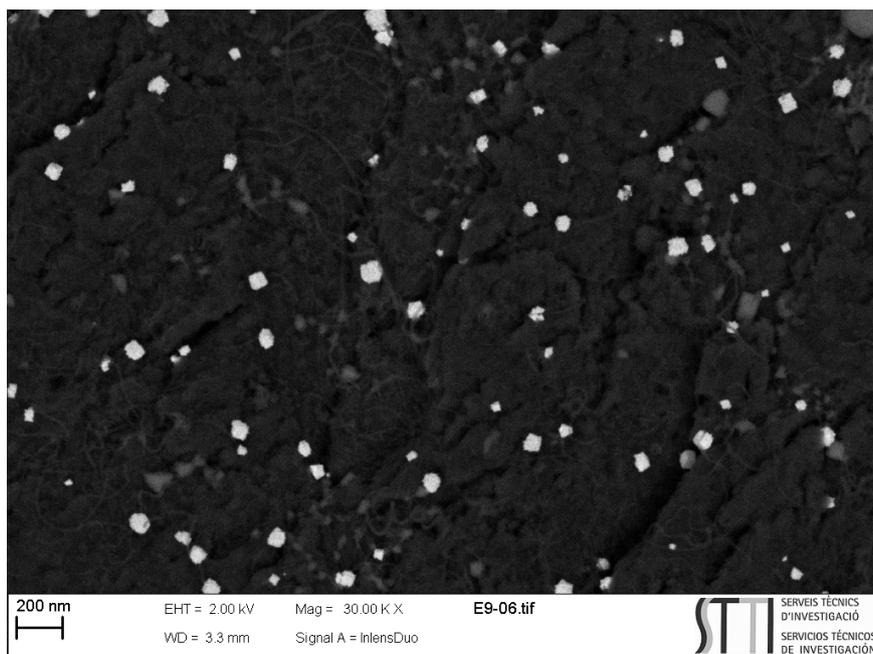


Figure S5: ESBD image of Pt/CNT-p-Na

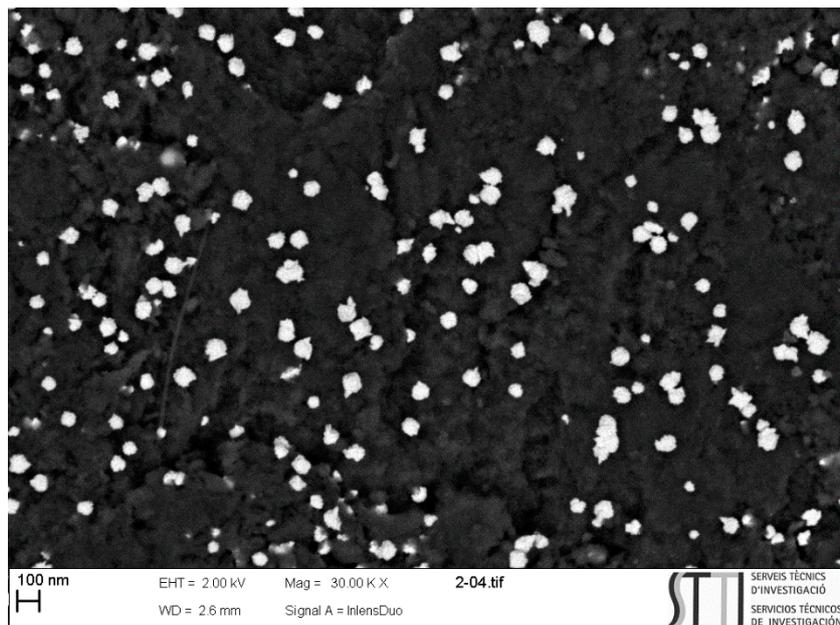


Figure S6: EBSD image of Pt/GC.