

Supporting Information

Acetylene oligomerization at the surface of TiO_2 : a step forward in the *in situ* synthesis of nanostructured carbonaceous structures at the surface of photoactive oxides

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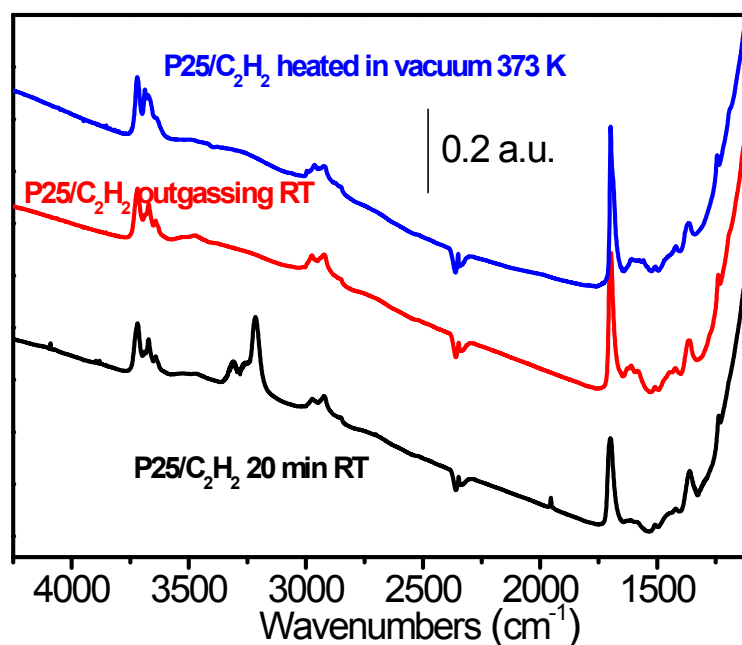


Figure S1. Acetylene/ TiO_2 high pressure FTIR experiment: effect of outgassing the sample at room temperature under high vacuum (red curve) and of heating the system to 373 K in absence of acetylene in the gas phase (blue curve). For the sake of clarity the spectra have been vertically shifted.