

- Supplementary Information -

Pore selectivity and electron transfers in HZSM-5 single crystals: A Raman microspectroscopy mapping and confocal fluorescence imaging combined study

A. Moissette*, M. Hureau, M. Moreau and J.P. Cornard

LASIRE, Bât. C5, Faculté des Sciences et Technologies, Université de Lille, 59655 Villeneuve d'Ascq cedex, France

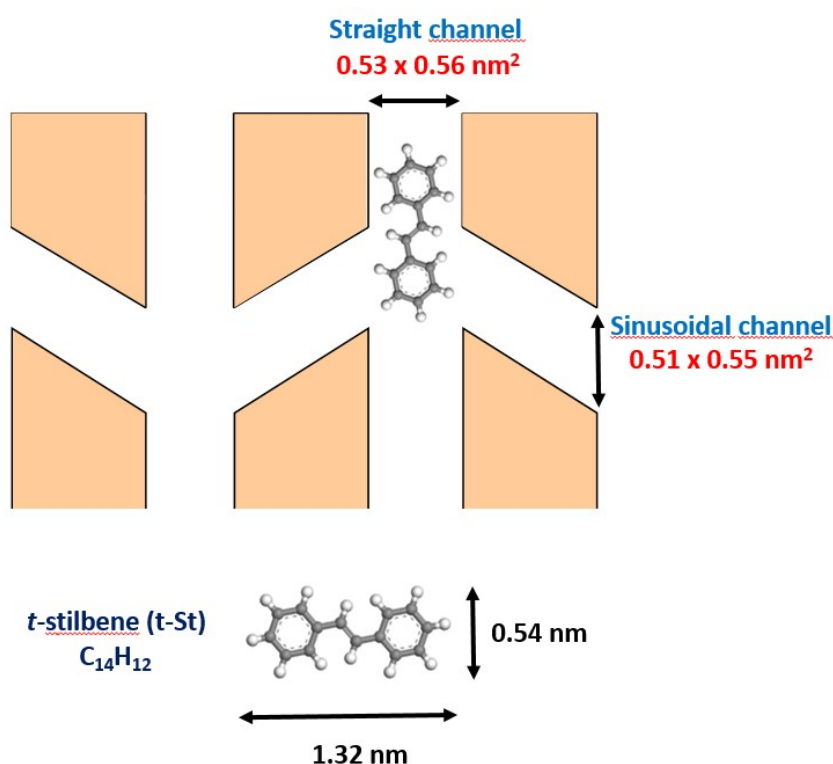


Figure S1: Schematic representation of the channels network of ZSM-5 structure with straight and sinusoidal channels. The close match between pore diameter and molecule dimensions makes a good fit of t-St in the ZSM-5 channels.

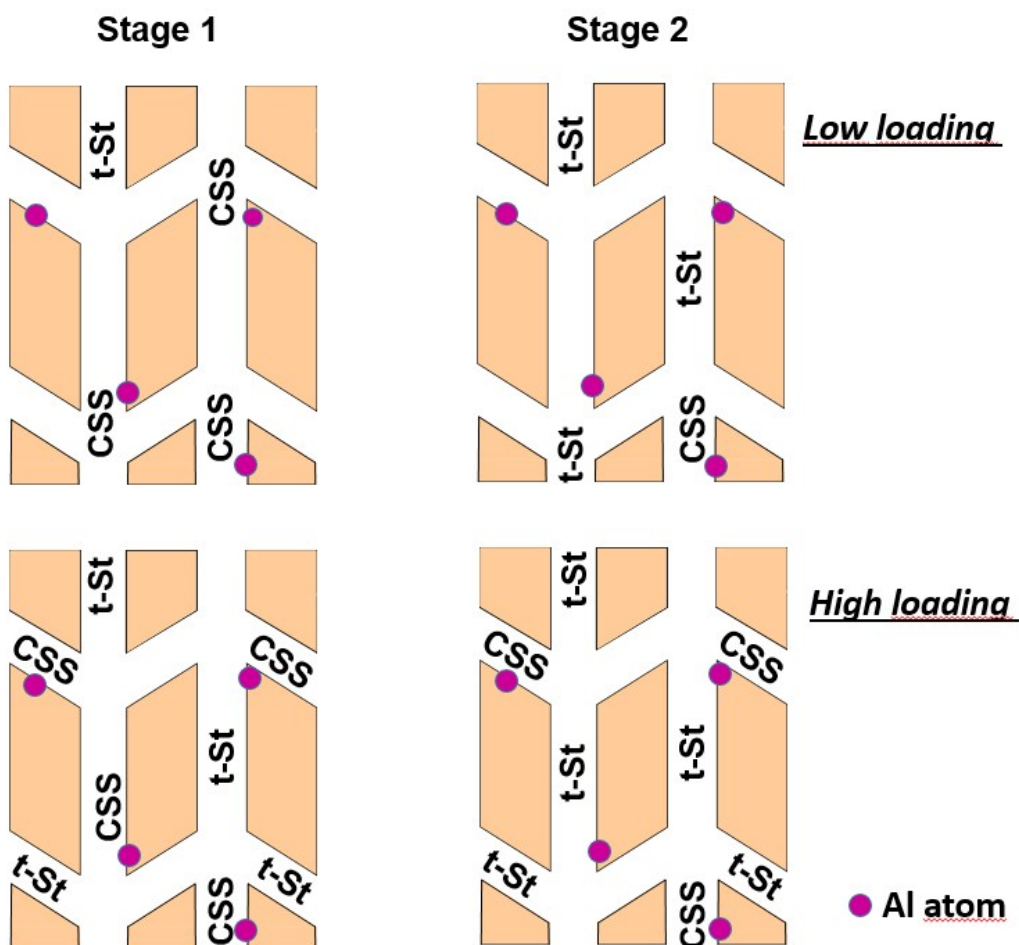


Figure S2: Schematic representation proposed to describe the distribution of the charge separated states and neutral molecules incorporated in the straight and sinusoidal channels for low and high loadings.

t-St: neutral *t*-Stilbene

CSS: Charge Separated State (Radical cation or CTC)

- Stage 1: the system is stabilized and contains *CSS* and *t-St*

- Stage 2: After very long times, recombination of *CSS* occurs partially to give *t-St*.

- Low loading: molecules and subsequent *CSS* are incorporated only in straight channels

- High loading: molecules and *CSS* are in straight and sinusoidal channels