

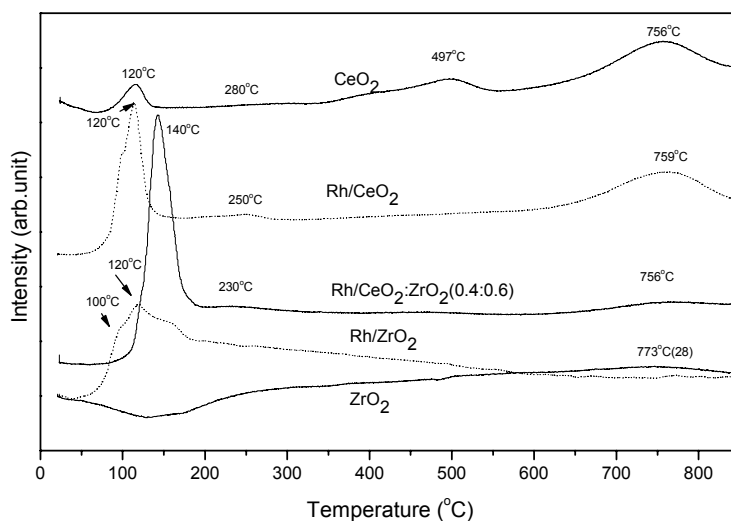
Supplementary information (SI):

**The Role of Acidic Sites and the Catalytic Reaction Pathways on the
Rh/ZrO₂ Catalysts for Ethanol Steam Reforming**

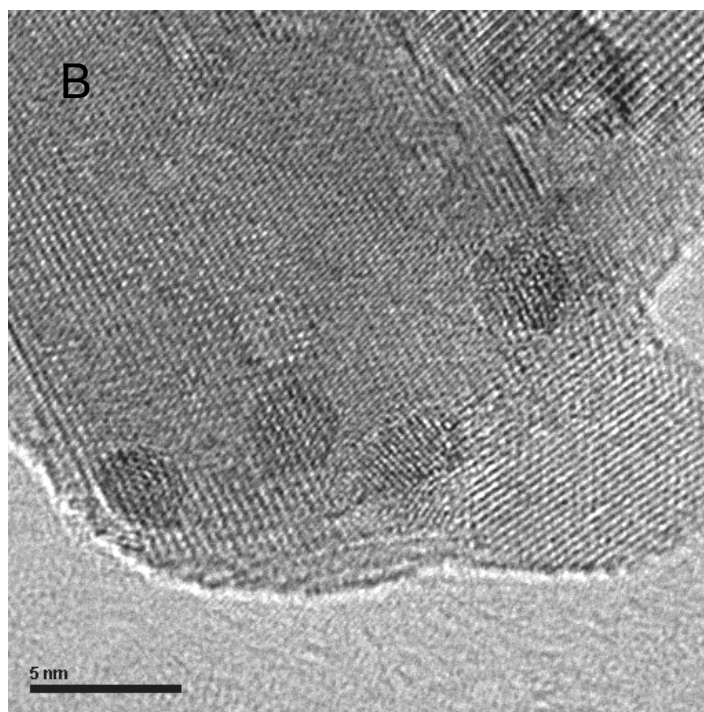
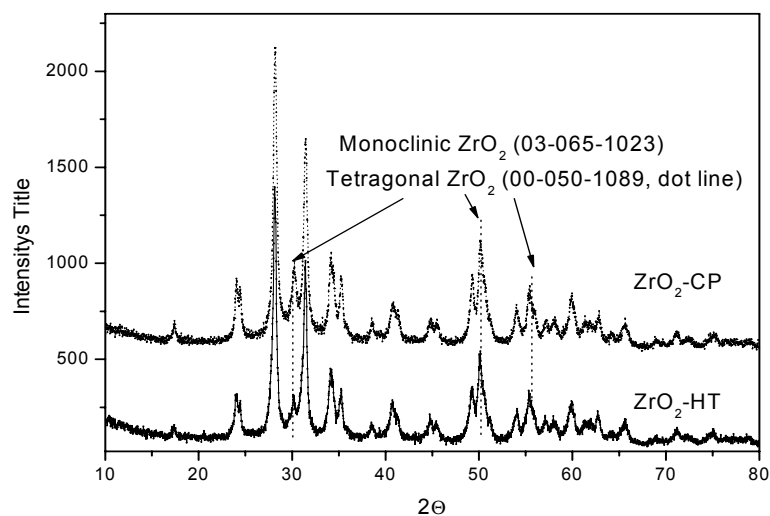
Ziyi Zhong*, Hanwee Ang, Catherine Chong, Luwei Chen, Lin Huang, Jianyi Lin

Institute of Chemical Engineering and Sciences, A-star, 1 Pesek Road, Jurong Island, Singapore, 627833.

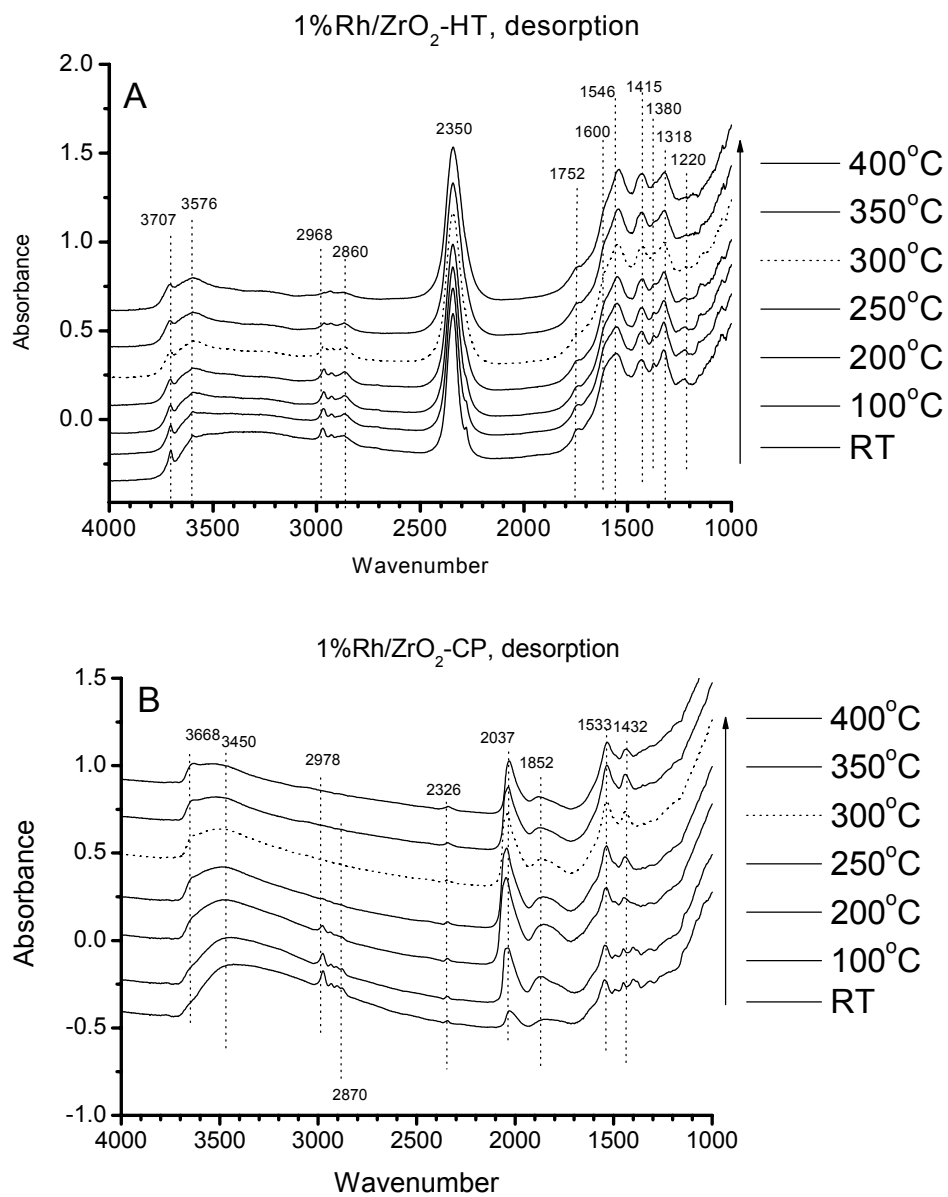
**Corresponding author: Fax number: 65-83166182; Zhong_ziyi@ices.a-star.edu.sg.*



SI-1. TRP profiles of the 1%Rh/ZrO₂ catalysts decorated with CeO₂. The catalyst support was prepared by the CP method.



SI-2. XRD patterns of the two ZrO₂ -HT and ZrO₂-CP supports calcined at 680°C for 5hrs and the HRTEM image of the 1%Rh/ZrO₂ (HT) catalyst after the aging test shown in Fig.3.



SI-3. Desorption and reaction behaviors of the EtOH molecules on the two 1wt%Rh/ZrO₂ catalysts at various temperatures.