

Supporting Information

Fig. S1 The HAADF-STEM images and corresponding EDX elemental mapping images of the catalysts (a) MoAl(F) (b) MoAl(C)

Fig. S2 The NH_3 -TPD profile of the catalysts

Fig. S3 The PXRD patterns of the spent catalysts

Fig. S4 The (a) N_2 adsorption-desorption isotherms (Adsorption points are marked by filled symbols and desorption points by empty symbols) and (b) pore size distributions of the spent catalysts

Fig. S5 The TG-DSC curves of the spent catalysts

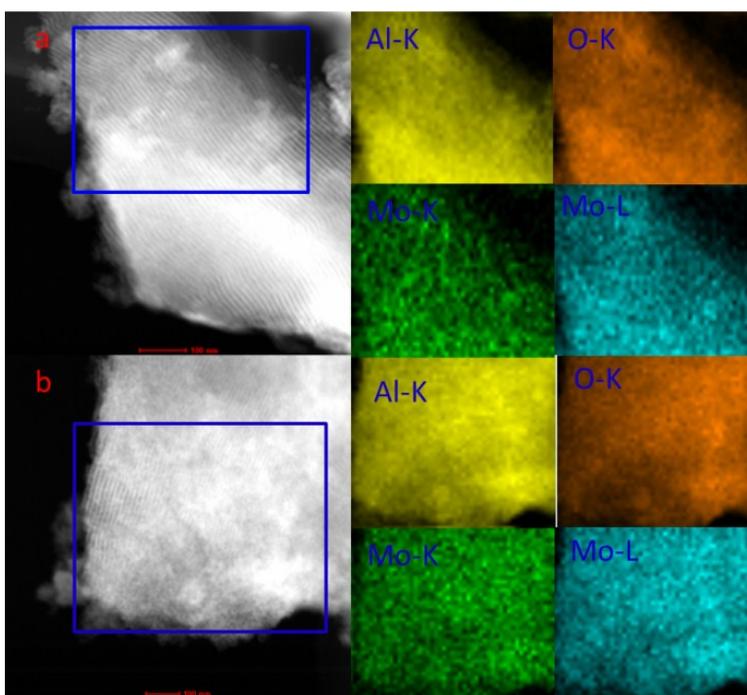


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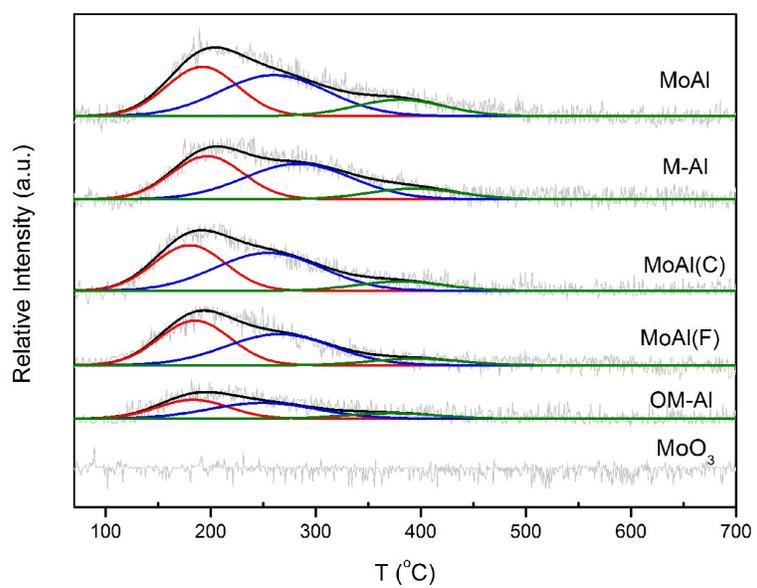


Fig. S2 The NH₃-TPD profile of the catalysts

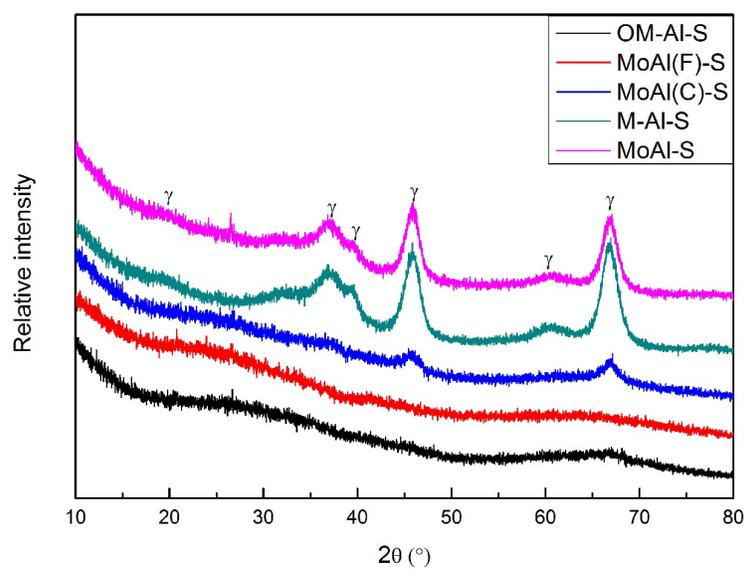


Fig. S3 The PXRD patterns of the spent catalysts

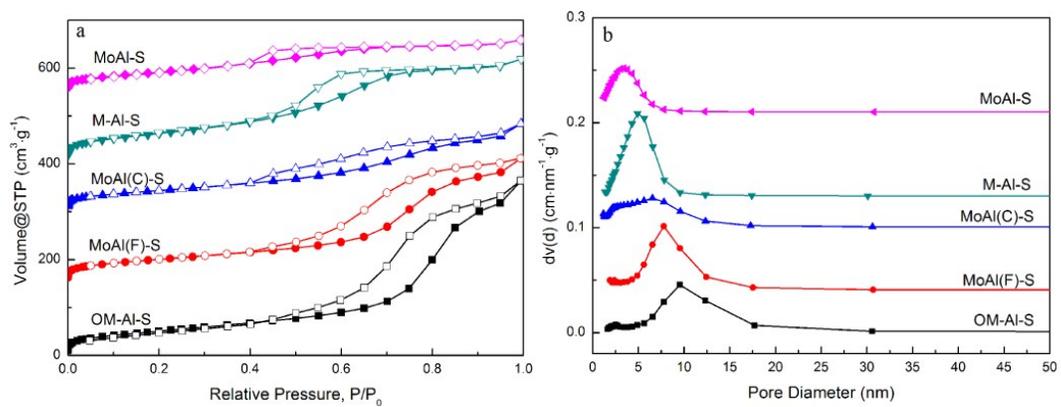


Fig. S4 The (a) N₂ adsorption-desorption isotherms (Adsorption points are marked by filled symbols and desorption points by empty symbols) and (b) pore size distributions of the spent catalysts

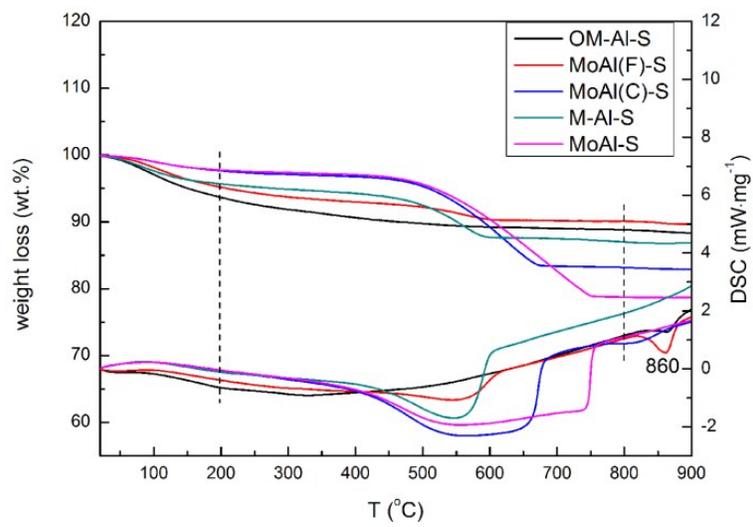


Fig. S5 The TG-DSC curves of the spent catalysts