

Supporting figures

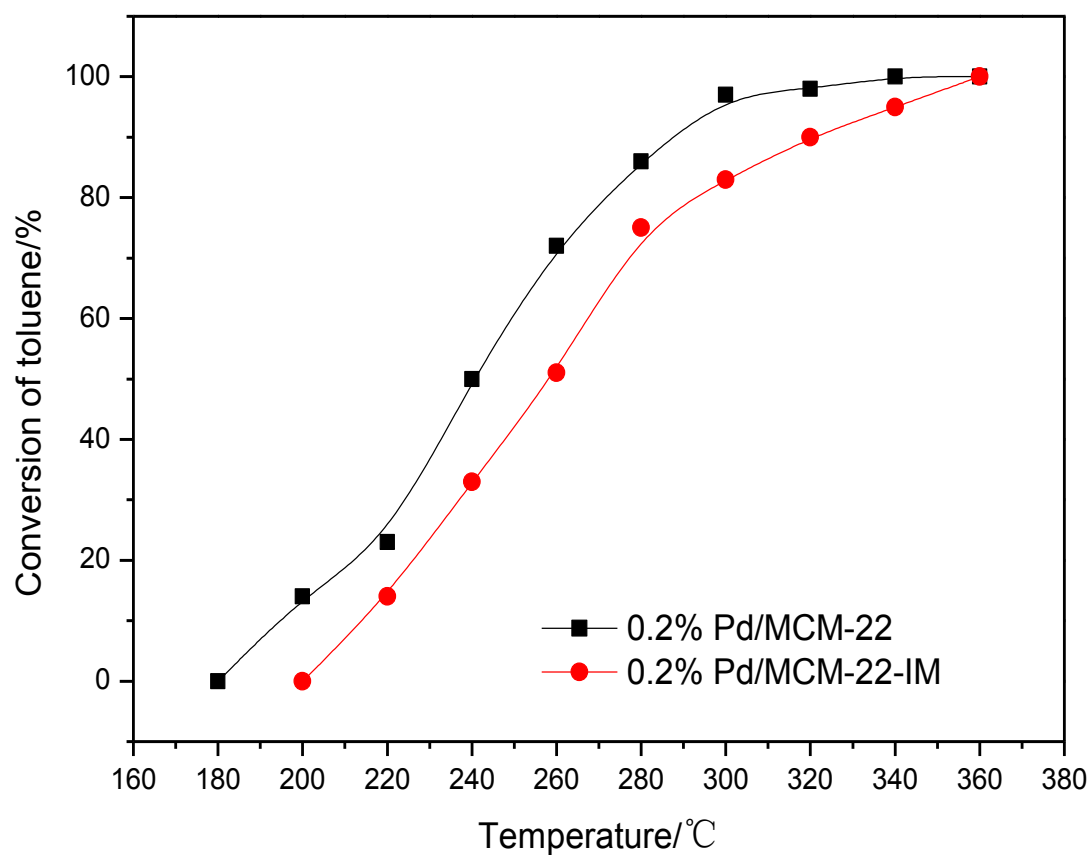


Figure. S1. The comparison of different preparation methods on catalytic activity of 0.2%Pd/MCM-22.

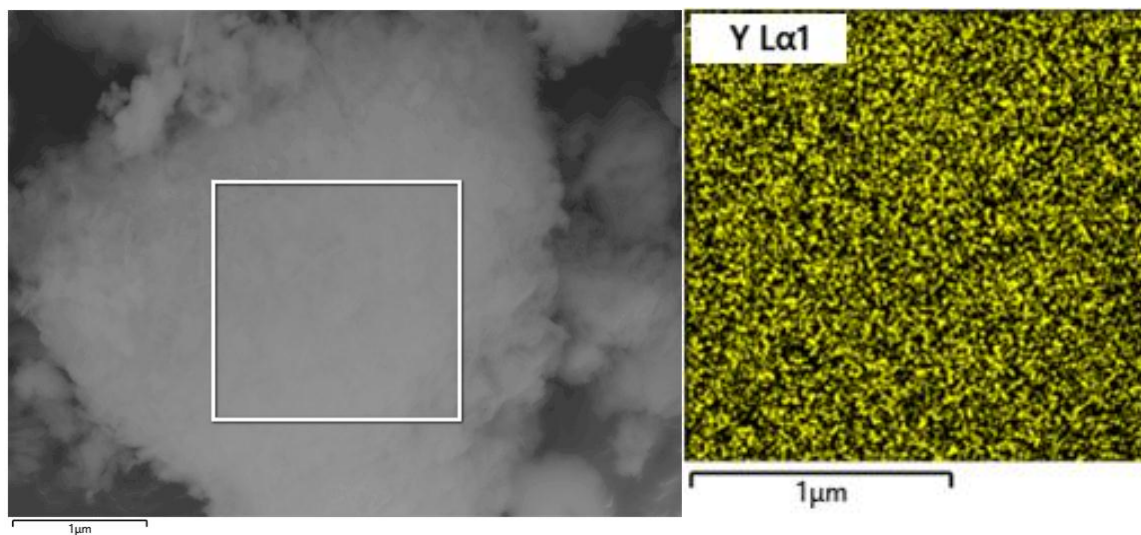


Figure. S2. SEM-EDS elemental (Y) mapping image of 0.2%Pd/7.5%Y/MCM-22.

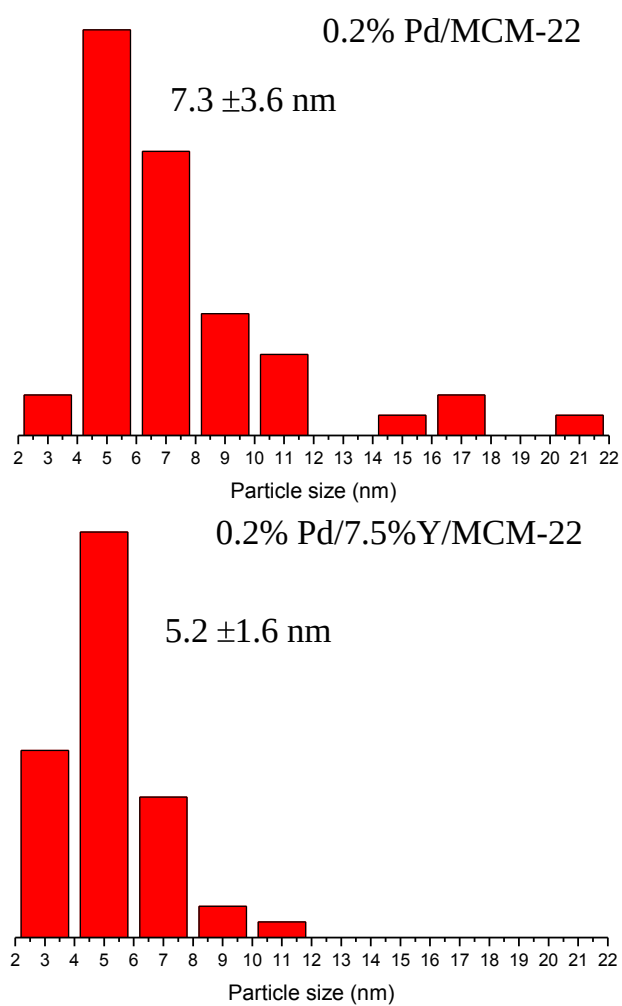
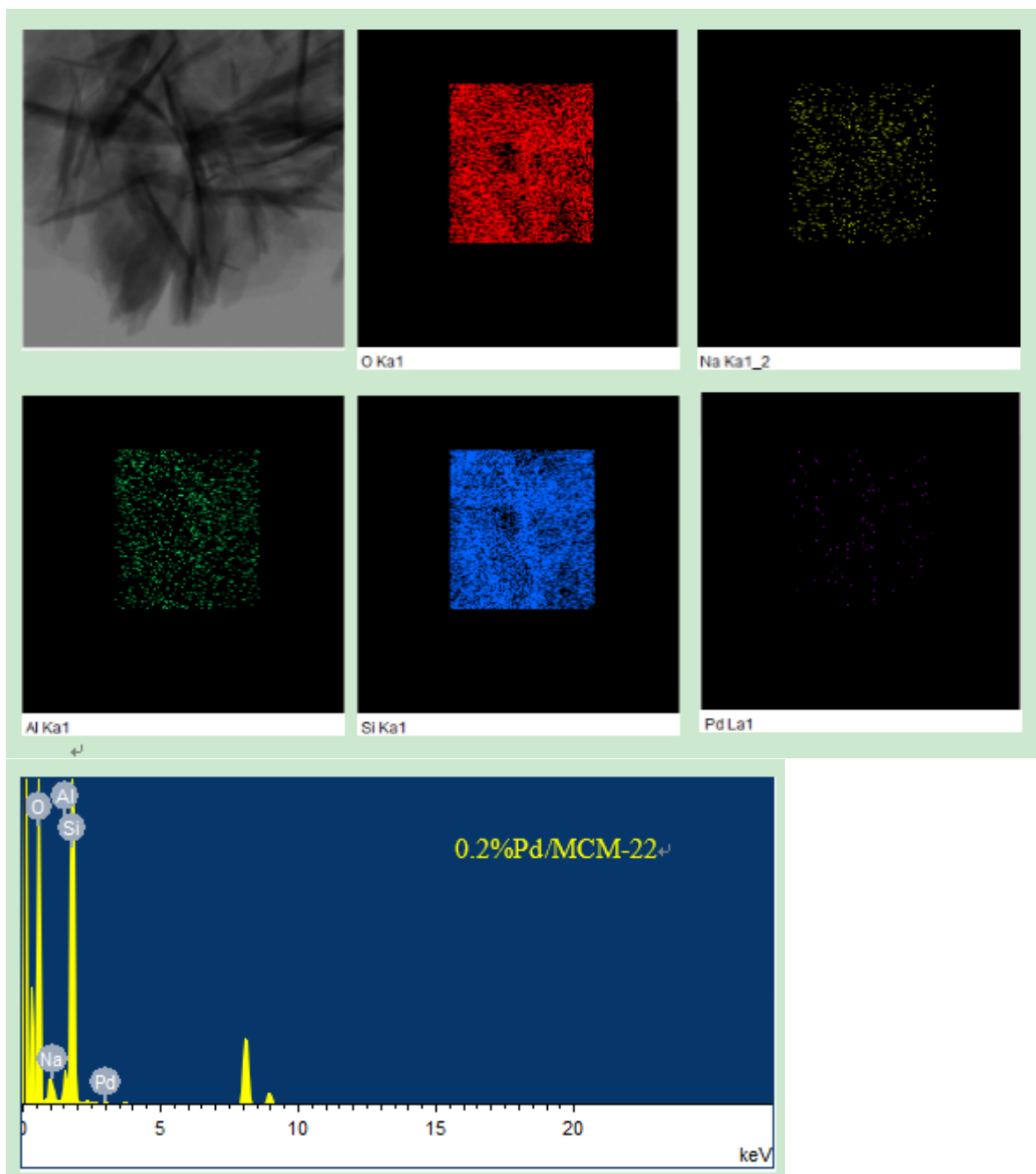


Figure. S3. Histograms with the particle size distribution of 0.2%Pd/MCM-22 and 0.2%Pd/7.5%Y/MCM-22.



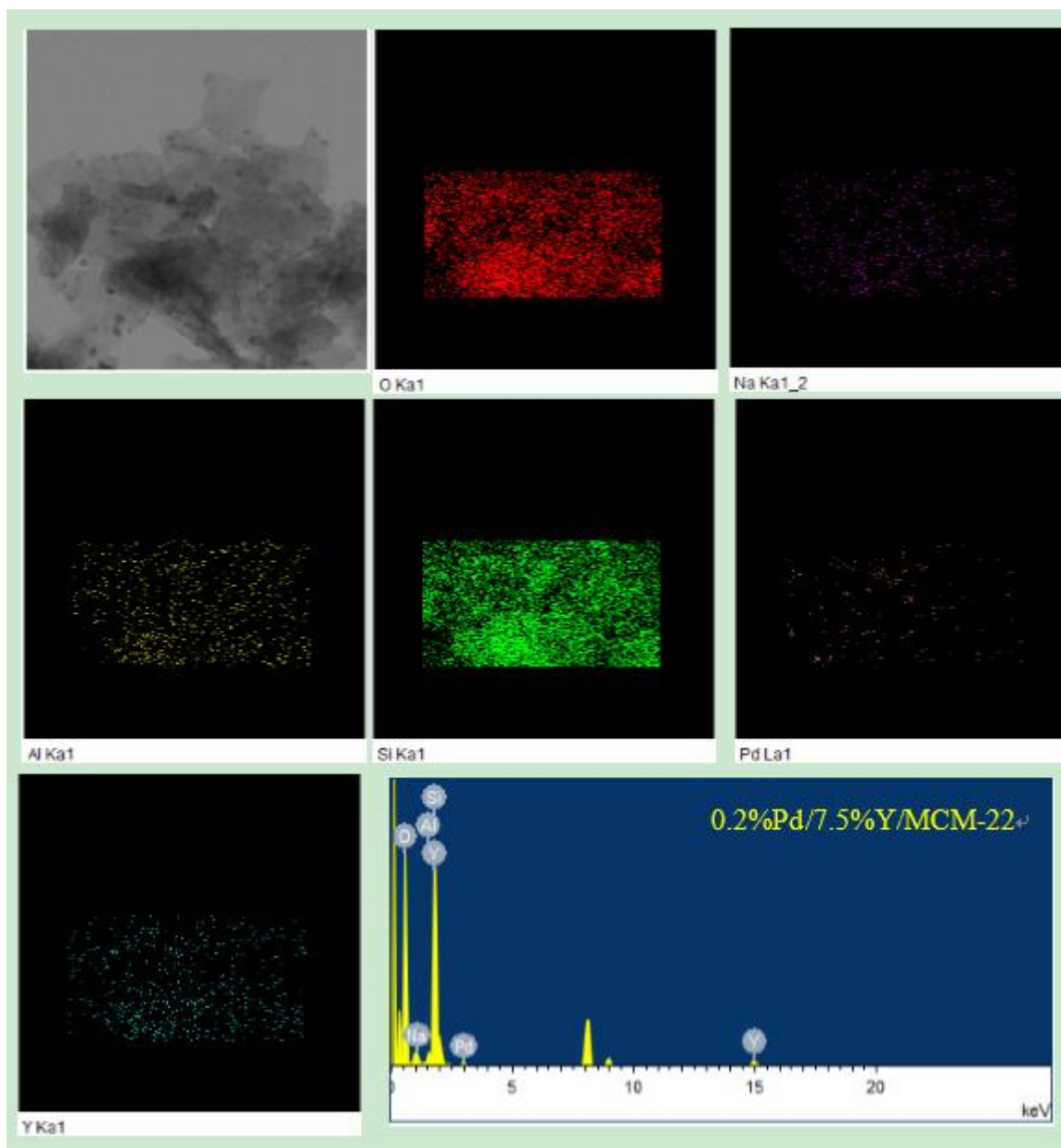


Figure. S4. HRTEM-EDS elemental mapping images of 0.2%Pd/MCM-22 and 0.2%Pd/7.5%Y/MCM-22.

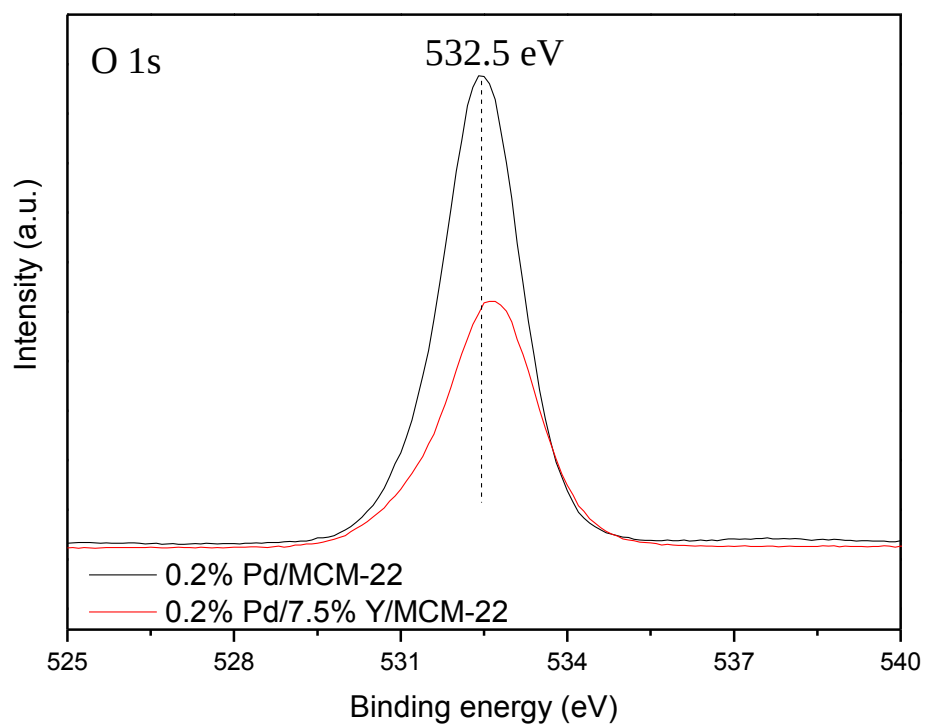


Figure. S5. XPS spectra of O 1s over fresh 0.2%Pd/MCM-22 and 0.2%Pd/7.5%Y/MCM-22.