

Supporting Information

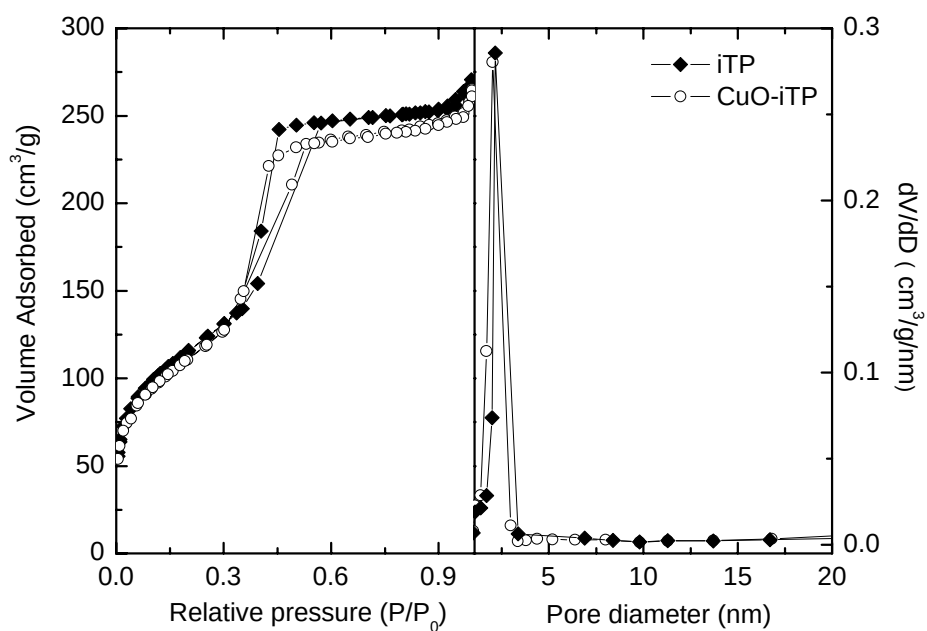


Fig. S1 N₂ adsorption-desorption isotherms (*right*) and the corresponding pore size distribution curves (*left*) of *i*TP and CuO-*i*TP, determined by BJH method.

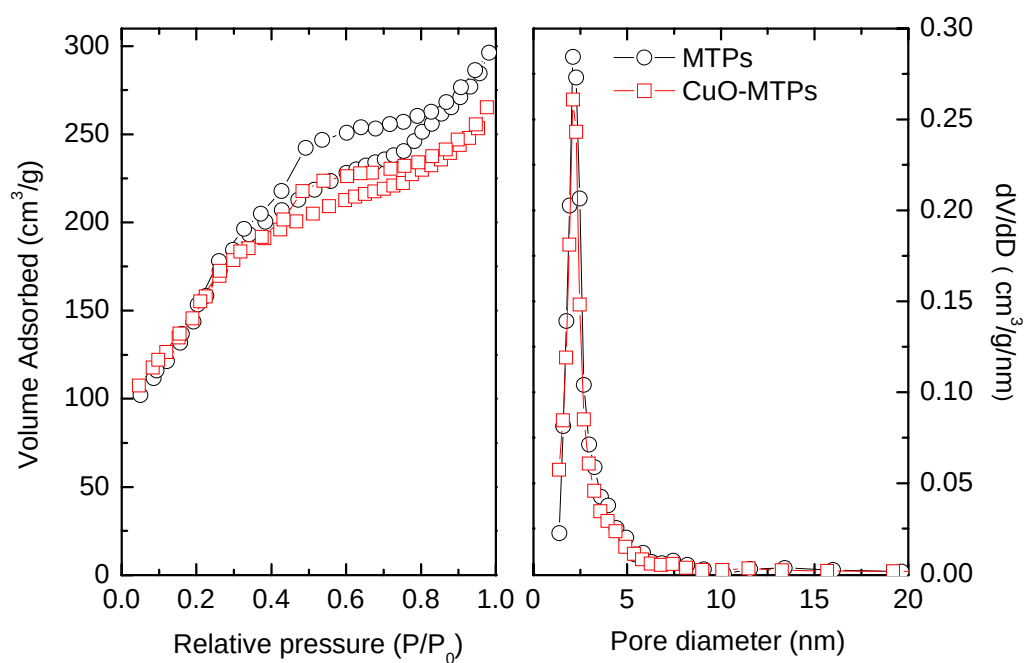


Fig. S2 N₂ adsorption-desorption isotherms (*right*) and the corresponding pore size distribution curves (*left*) of MTPs and CuO-MTPs, determined by BJH method.

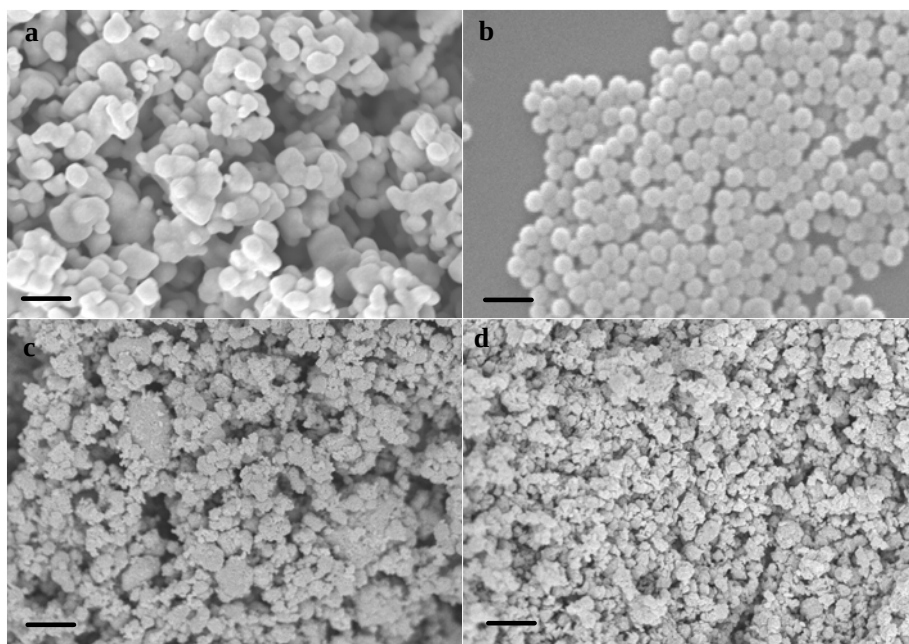


Fig. S3 SEM images of mesoporous titanium phosphonates prepared at different water/ethanol ratios: (a) 80/20, (b) 75/25, (c) 70/30 and (d) 65/35. The bars in the figures denoted for 1 μm .

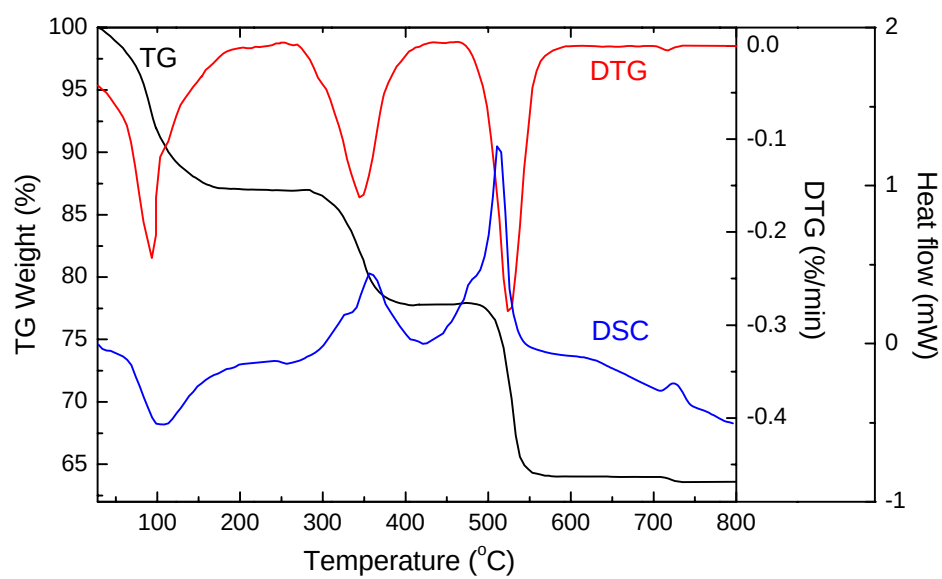


Fig. S4 TG-DSC profiles of the as-synthesized MTPs solid before surfactant removal.

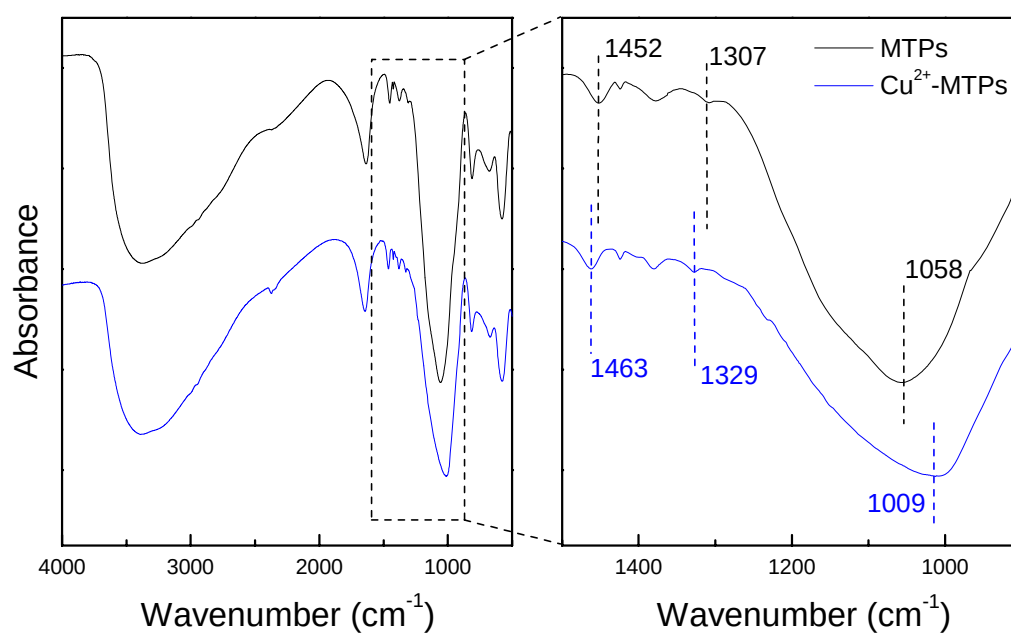


Fig. S5 FT-IR spectra of the synthesized MTPs and Cu²⁺-MTPs samples.

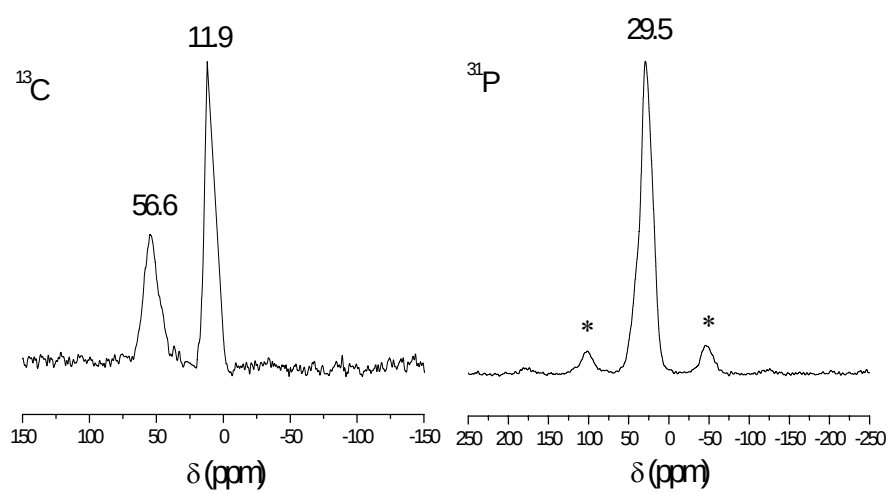


Fig. S6 ^{13}C and ^{31}P MAS NMR spectra of synthesized MTPs material.

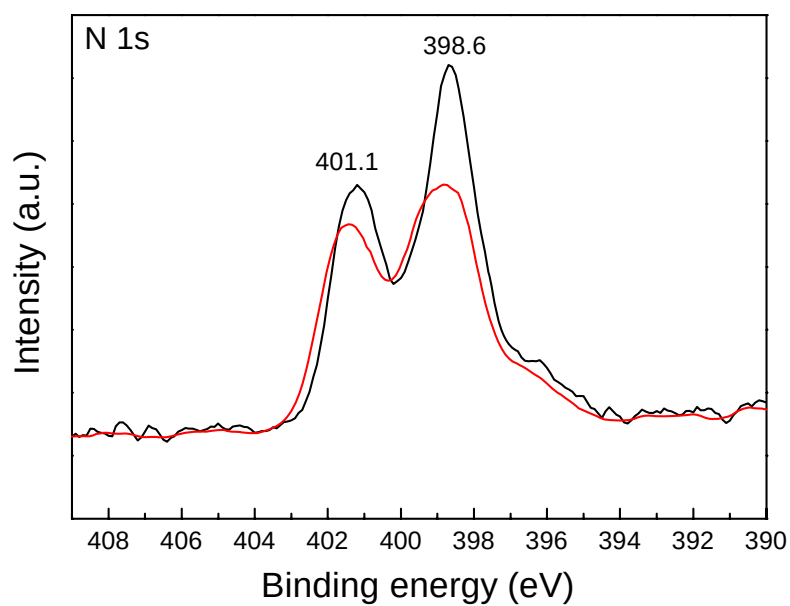


Fig. S7 High-resolution XPS spectra of the N 1s regions of MTPs (black line) and CuO-MTPs (red line).

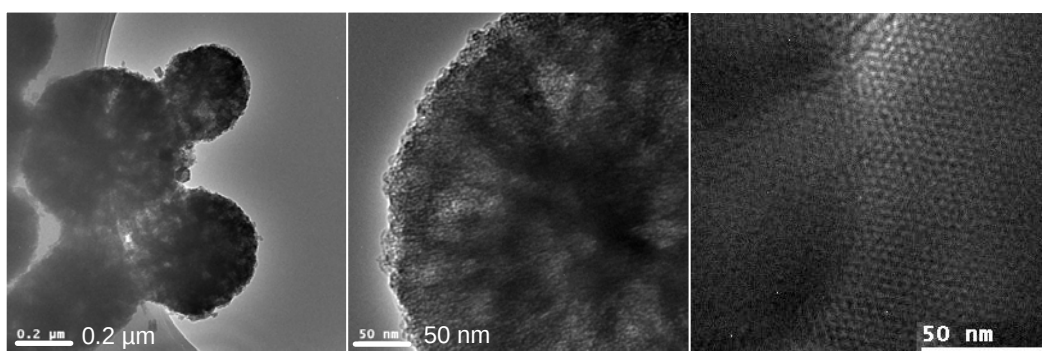


Fig. S8 TEM images of the synthesized CuO-MTPs.

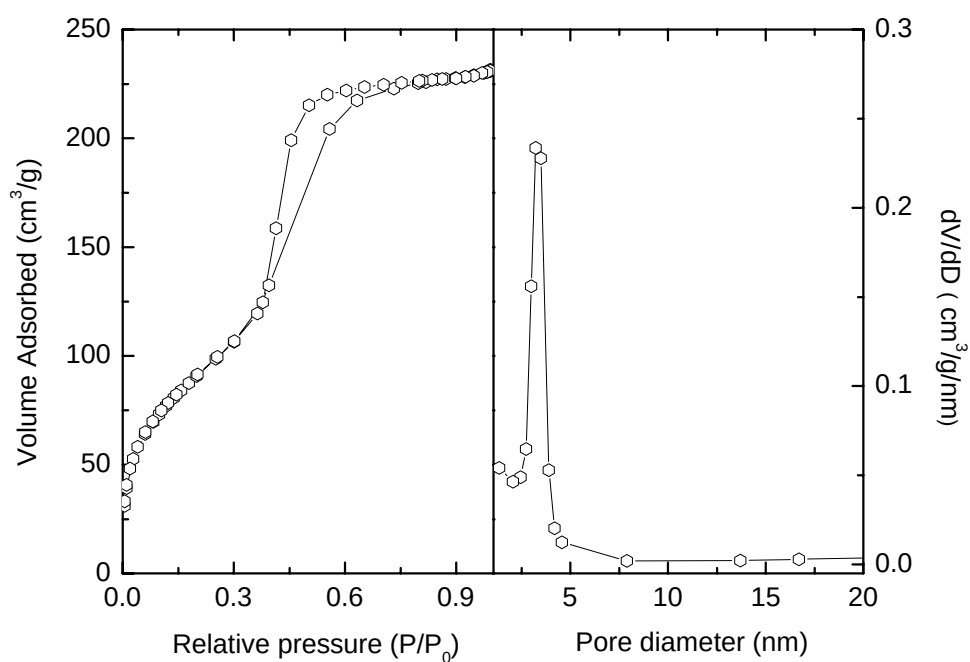


Fig. S9 N₂ adsorption-desorption isotherm (*right*) and the corresponding pore size distribution curve (*left*) of CuO-*i*TPs, determined by BJH method.

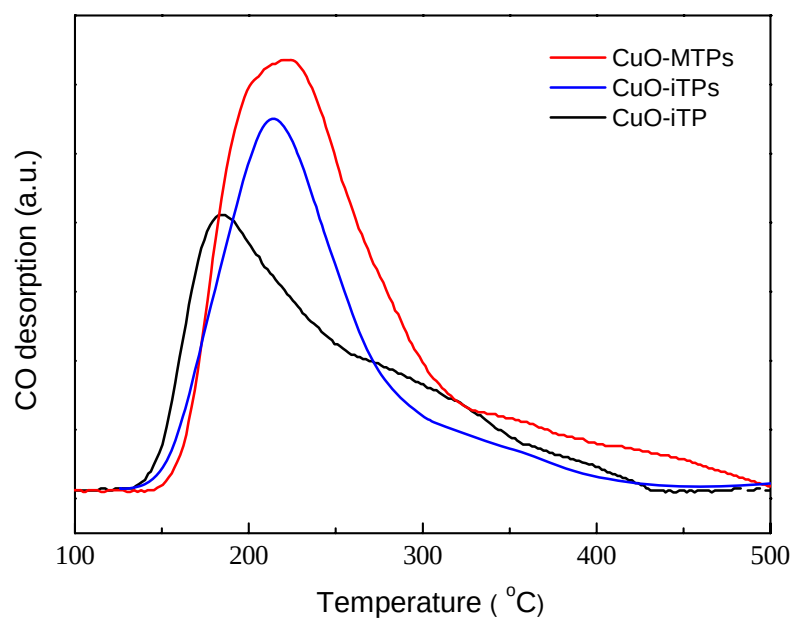


Fig. S10 CO-TPD profiles of the synthesized samples.