

Fig. 1 (a) SEM image of the as-synthesized ZrP-h sample; (b) SEM image of the calcined ZrP-hc650 sample; (c) cross-sectional TEM image of the ZrP-h sample. The hollow macrochannels are practically parallel to each other, and extend throughout almost the whole particles.

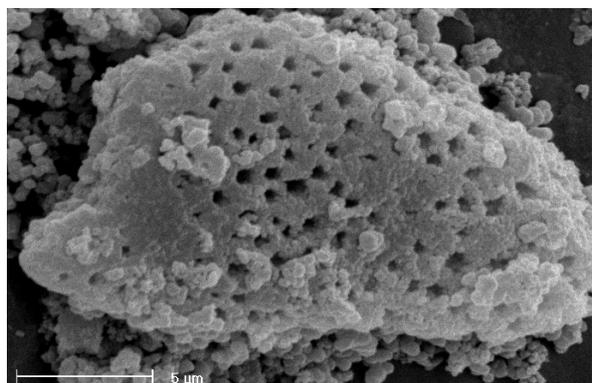


Fig. 2 SEM image of the ZrPO sample synthesized without autoclaving.

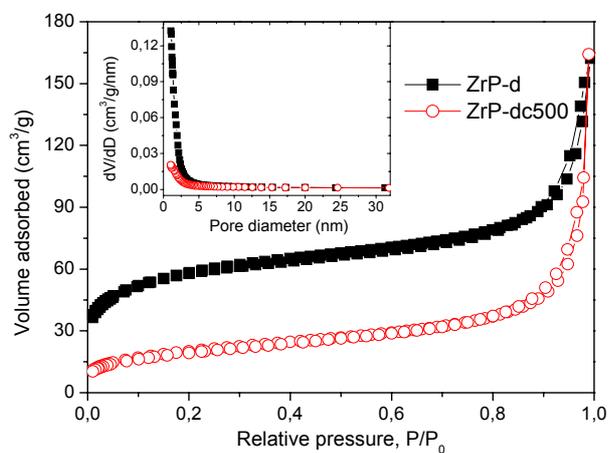


Fig. 3 N₂ adsorption-desorption isotherms and the corresponding BJH pore size distribution curves (*Inset*) of the ZrPO samples synthesized without autoclaving.