

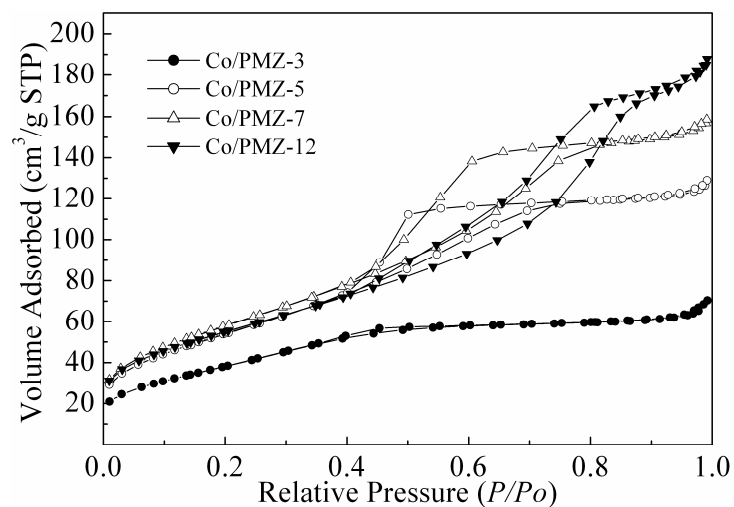


Fig. S1. N₂ adsorption/desorption isotherms of mesoporous zirconia supported cobalt catalysts

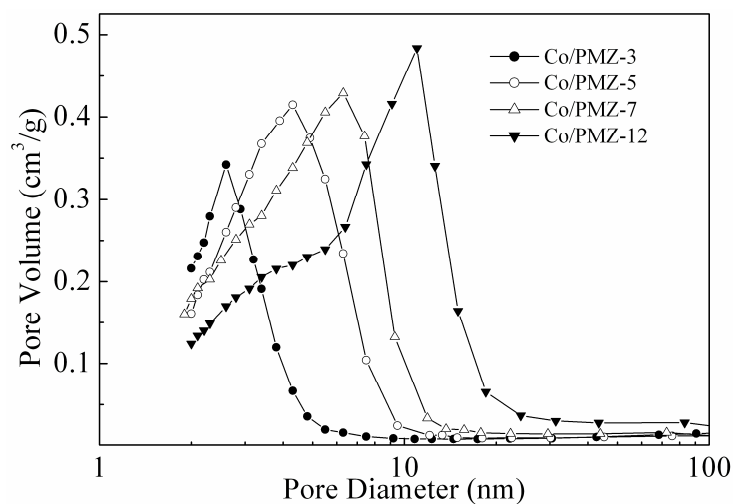


Fig. S2. BJH pore size distribution curves of mesoporous zirconia supported cobalt catalysts

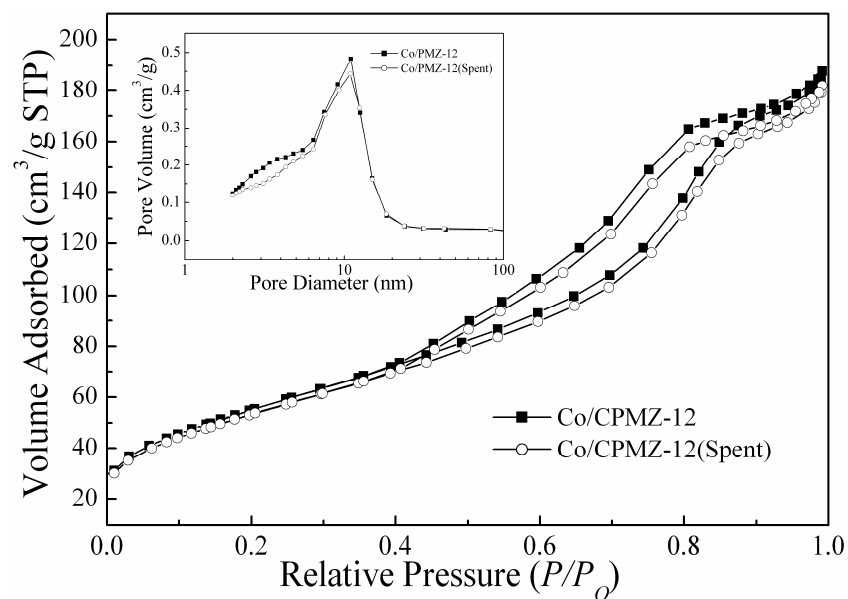


Fig. S3. N₂ adsorption/desorption isotherms and BJH pore size distribution curves (inset) of Co/PMZ-12 and Co/PMZ-12(Spent)

Table S1. Textural properties of Co/PMZ-12 and Co/PMZ-12(Spent)

Sample	BET surface area (m ² /g)	Pore volume (cm ³ /g)	Pore size (nm)
9.5%Co/PMZ-12	201	0.29	11.0
9.5%Co/PMZ-12(Spent)	194	0.28	10.9