Electronic Supplementary Material (ESI) for New Journal of Chemistry.

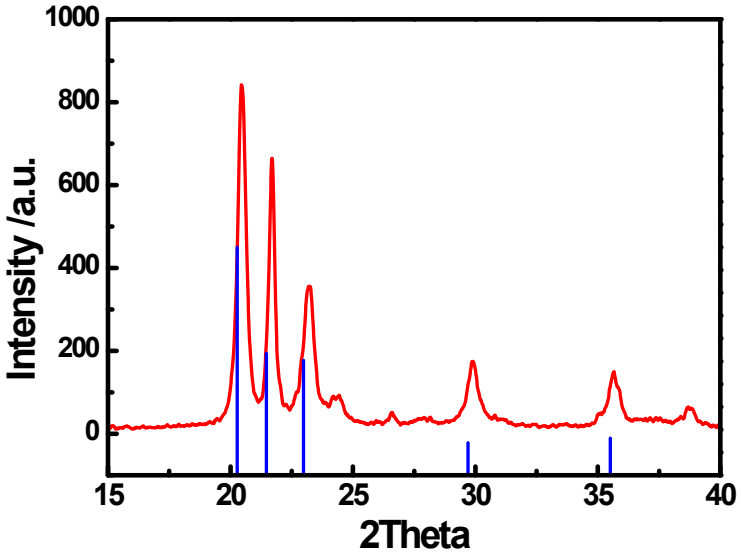

Figure S1 The XRD pattern of the material obtained during the heating process

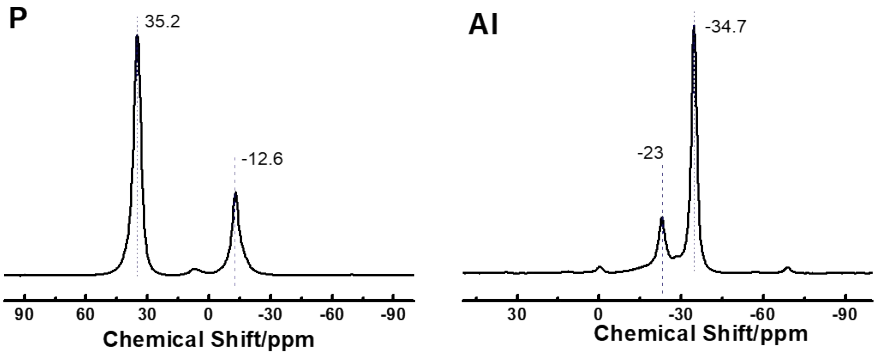

Figure S2 The ^{31}P MAS NMR and ^{27}Al MAS NMR spectra of the $AlPO_4$-A material

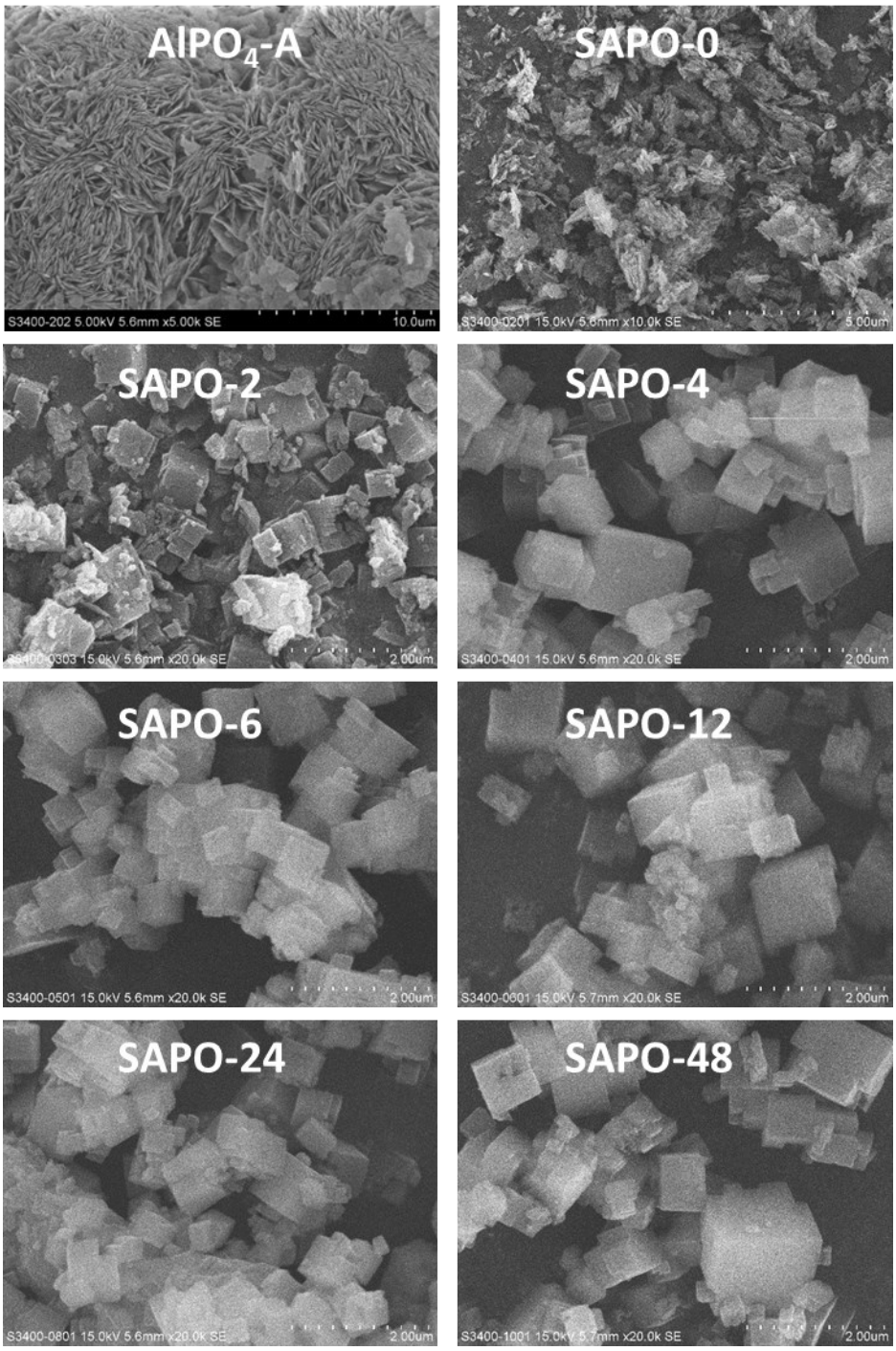

Figure S3 The SEM images of the $AlPO_4$-A material and the crystallization products obtained in 0-48 h

Table S1 The comparison with the reported methods for hierarchical synthesis with only TEA/TAOH

Synthesis method	**precursor**	**Mesopores**	**Crystallization time / h**	**Ref.**
Dry-gel conversion	1.0 Al_2O_3:1.0 P_2O_5:0.6SiO_2 :2.0 TEAOH	Hollow structure, the intracrystalline meso/macro-pores, which can only be accessed through the crystalline 8-ring channel	>12	[24]
Seeding	1.0Al_2O_3: 1.0P_2O_5:(0.2 ~5.0)TEA: (0.4~0.8)SiO_2 : 70H_2O, 8%wt seeds	Intracrystalline micro/macro-pores, part of which connected directly to the crystal surface	>6	[21],[35]
Two-step approach with crystalline $AlPO_4$ as intermediate	1.0Al_2O_3: 1.0P_2O_5:2TEA: 0.5TEAOH:0.3SiO_2: 31H_2O, 8%wt seeds	Intracrystalline mesopores, almost all of which can be accessed through the zeolite surface	>4	This paper

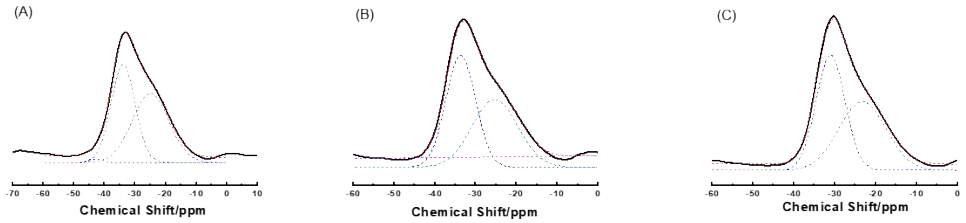

Figure S4 The peak-fitting of the ^{31}P MAS NMR spectra of (A) SPAO-34-31, (B) SAPO-34-11, and (C) SAPO-34-II

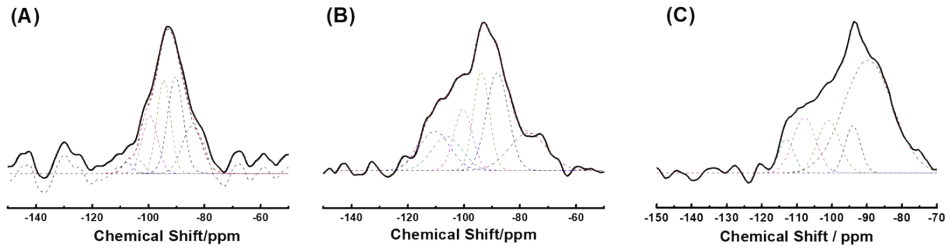

Figure S5 The peak-fitting of the ^{29}Si MAS NMR spectra of (A) SPAO-34-31, (B) SAPO-34-11, and (C) SAPO-34-II

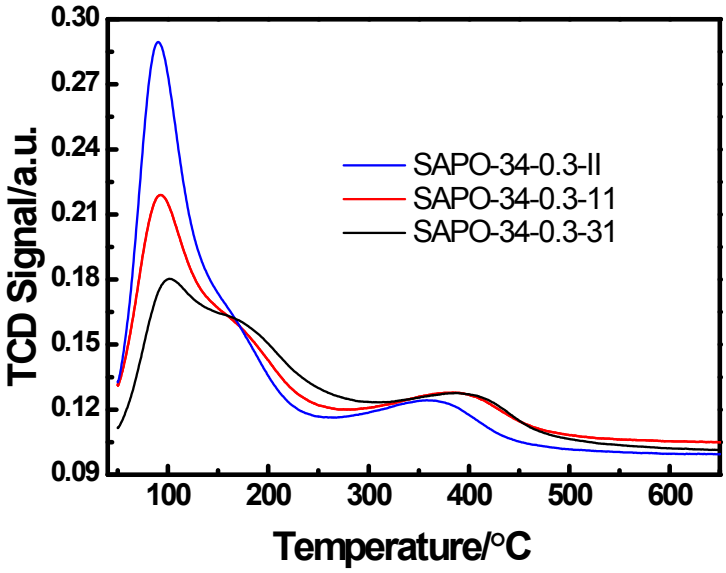

Figure S6 The NH_3-TPD profile of the SAPO-34 samples