

Table S1: NH₃-TPD measurements of supports and passivated metal phosphides supported catalysts.

	Acidity (mmol NH ₃ /g)
m-Al ₂ O ₃	0.46
Al-SBA-15	0.11
Ni ₂ P/Al-SBA-15	0.43
Co ₂ P/Al-SBA-15	0.24
MoP/Al-SBA-15	0.64

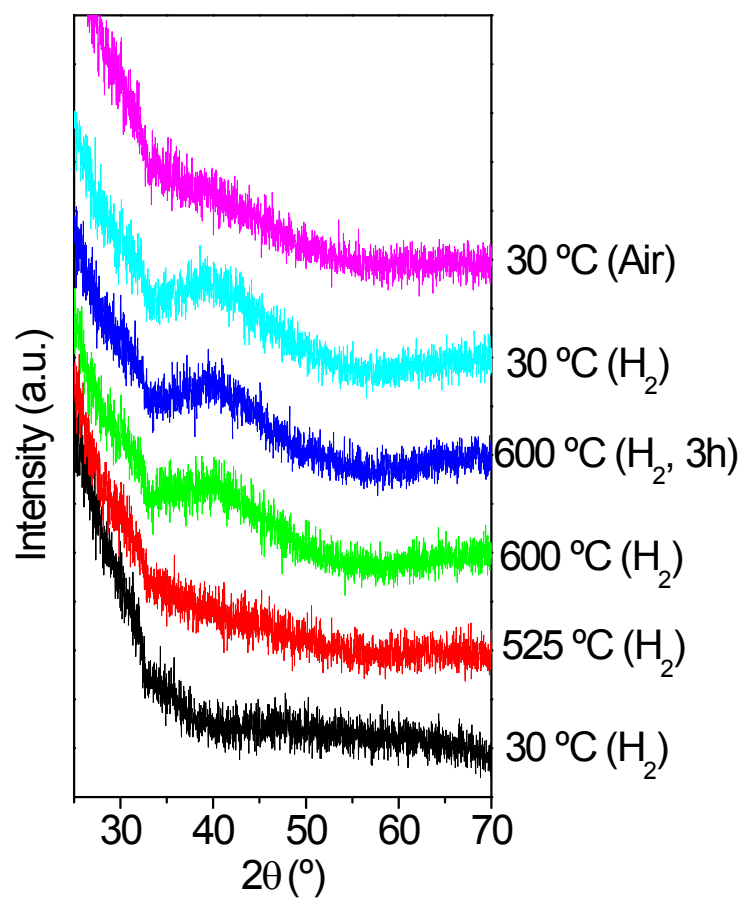


Fig S1: In situ X-ray diffraction analyses using a temperature chamber for calcined MoP/Al-SBA-15.