

Supporting Information Available

Fig. S1. SEM and TEM of SBA-15

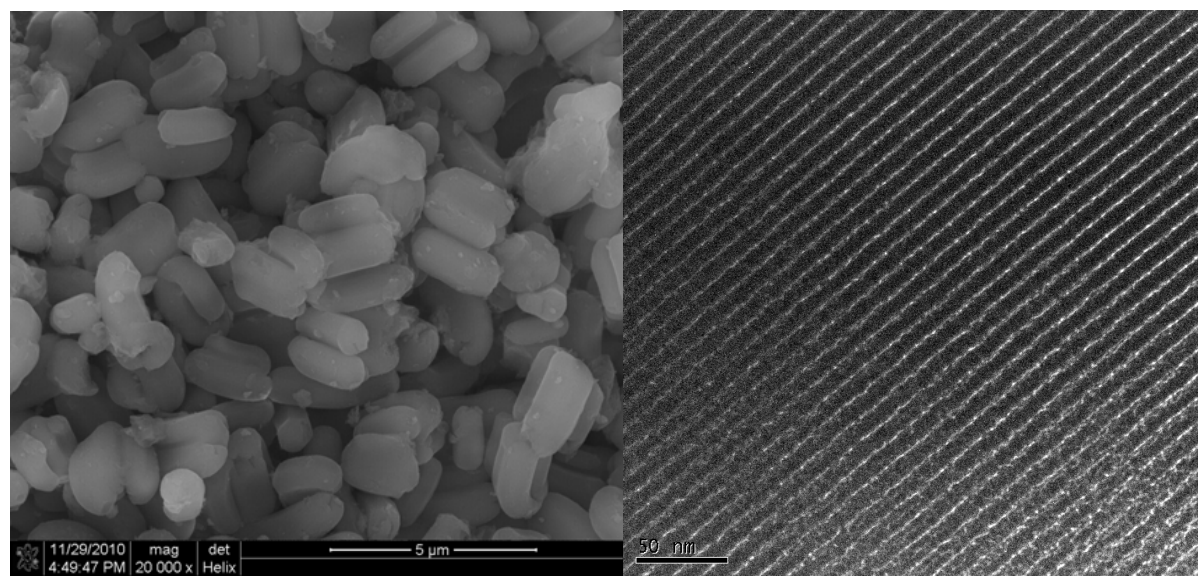


Fig. S2. N₂ adsorption-desorption isotherms (a) and small-angle X-ray scattering (SAXS) patterns (b) of SBA-15. Inset (a) is the corresponding BJH pore-size distribution curves of SBA-15.

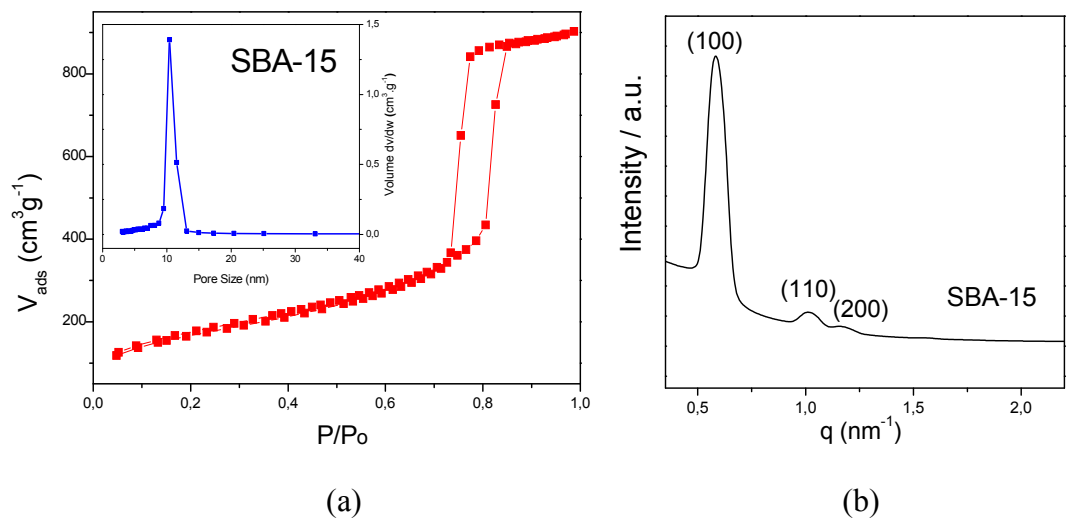


Table S1. Physicochemical properties of SBA-15

Sample	Surface area ^[c] (m ² /g)	Pore volume ^[d] (cm ³ /g)	Pore size ^[e] (nm)
SBA-15	553	1.31	10.4

Table S2. Elemental composition of the sample obtained from CHNS analysis.

Catalysts	C (w%)	N (w%)	H (w%)	S (w%)	CN ⁻¹ (molar ratio)
g-C ₃ N ₄ -500	32.41	51.28	2.551	0.102	0.74
g-C ₃ N ₄ -600	33.24	50.99	2.492	0.092	0.76
mpg-CN _{0.1}	32.97	50.84	2.243	0.141	0.76
mpg-CN _{0.2}	33.04	51.78	2.366	0.141	0.74
mpg-CN _{0.4}	33.00	51.57	2.366	0.101	0.75
mpg-CN _{0.6}	32.91	50.01	2.622	0.077	0.77
mpg-CN _{0.8}	31.96	49.68	2.581	0.085	0.75

Table S3. H₂ evolution rate of mpg-CN_{0.2} synthesized at different temperatures.

Catalysts	mpg-CN-500	mpg-CN-550	mpg-CN-600
HER ^[a] (μmol/h)	177	213	247

[a] H₂ evolution rate