

Supporting Information

Note added after first publication. This ESI document replaces the version published on 8th April 2014, which contained errors in Fig. S5 (a, d, f), which have now been corrected. Please also see the Correction DOI: 10.1039/C5CE90075A.

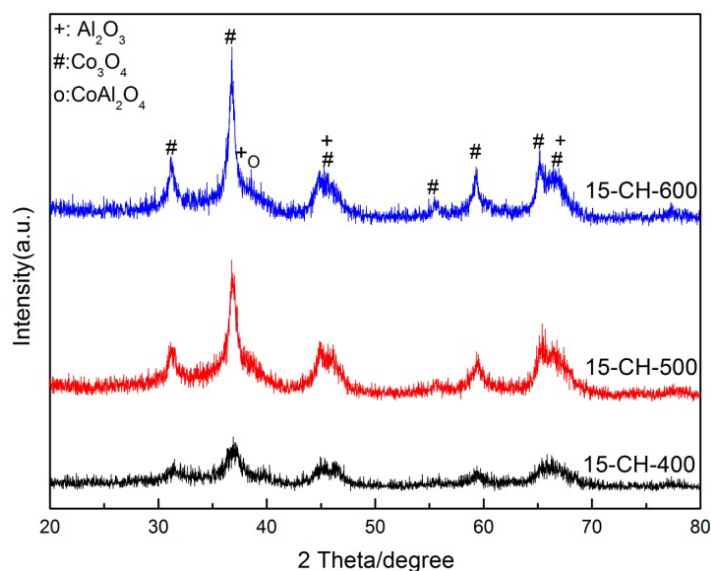


Figure S1. XRD patterns of the samples T-400, T-500 and T-600. (#) Co_3O_4 ; (O)

CoAl_2O_4 and (+) γ - Al_2O_3 .

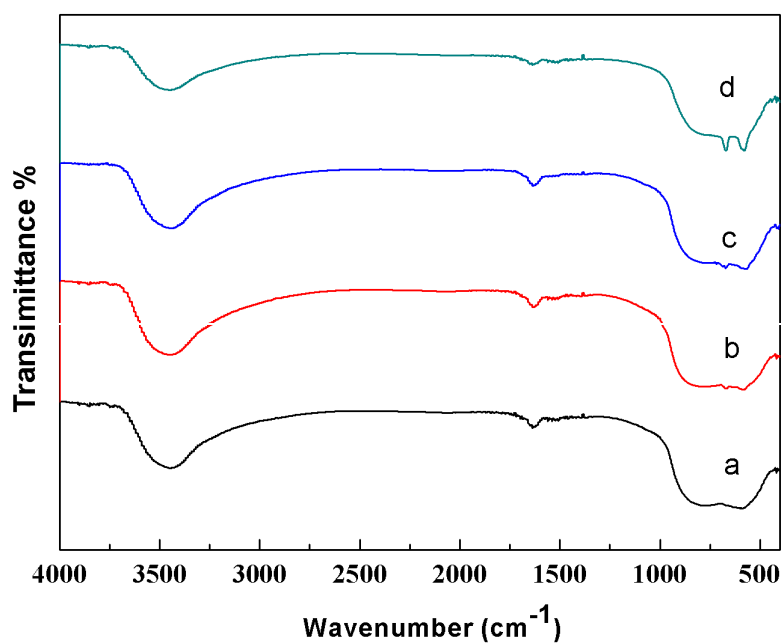


Figure S2. FT-IR spectra of the samples (a) S-5; (b) S-10; (c) S-15; (d) S-25.

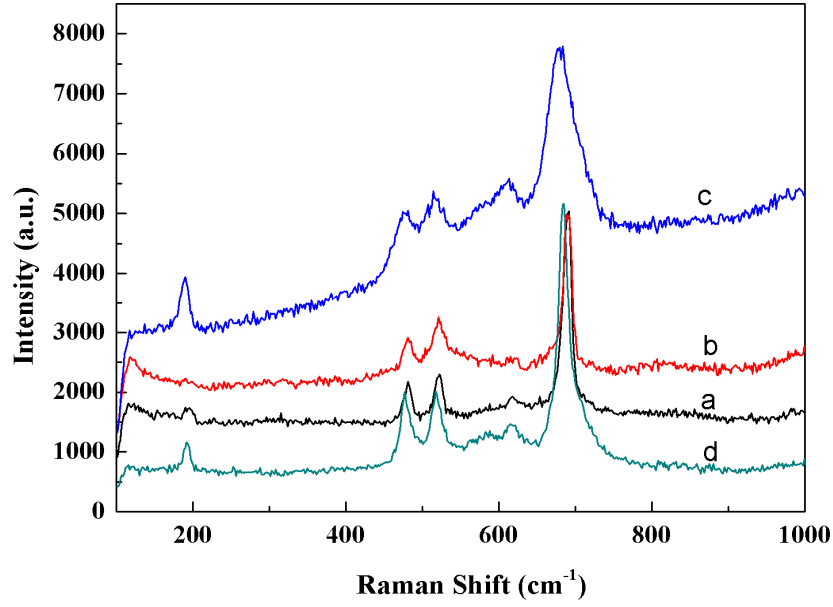


Figure S3. Room temperature Raman spectrum of the samples (a) S-5; (b) S-10; (c) S-15; (d) S-25.

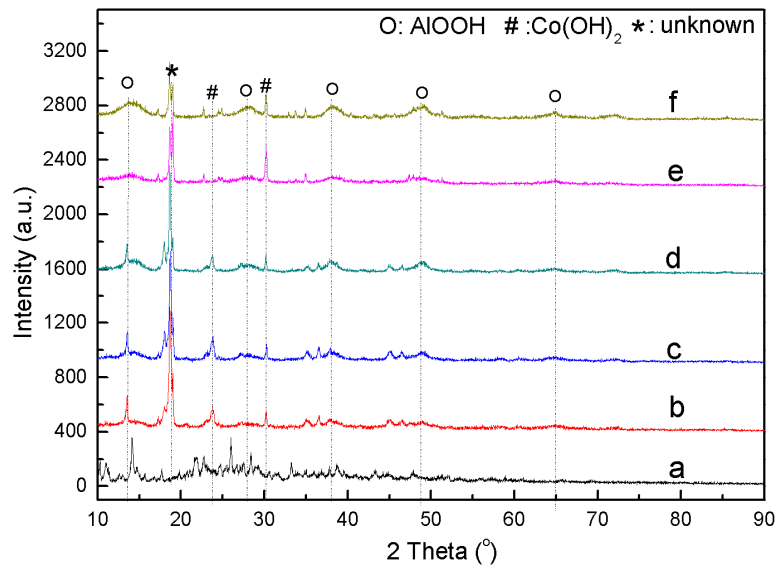


Figure S4. XRD patterns of the 15wt% Co-loading sample without TSC collected at different reaction times: (a) 0.5, (b) 3, (c) 6, (d) 12, (e) 24h and (f) 48h.

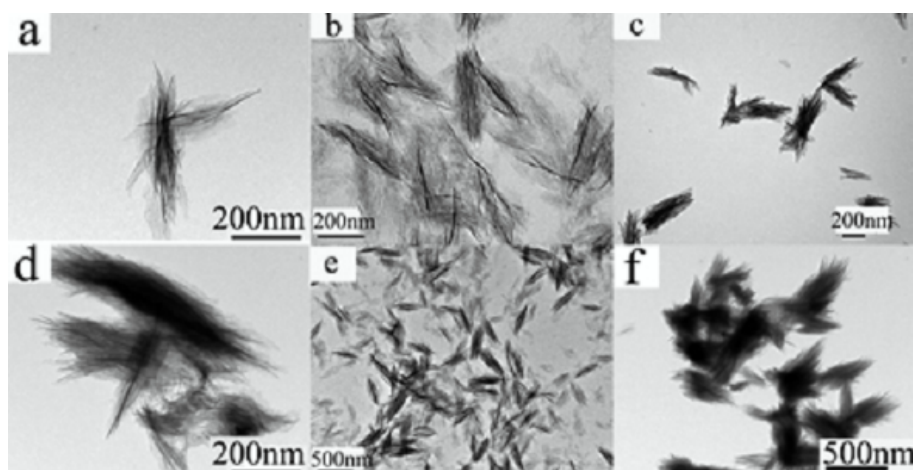


Figure S5. TEM images of the 15wt% Co-loading sample without TSC collected at different reaction times: (a) 0.5, (b) 3, (c, d) 6, (e) 12, and (f) 24h.