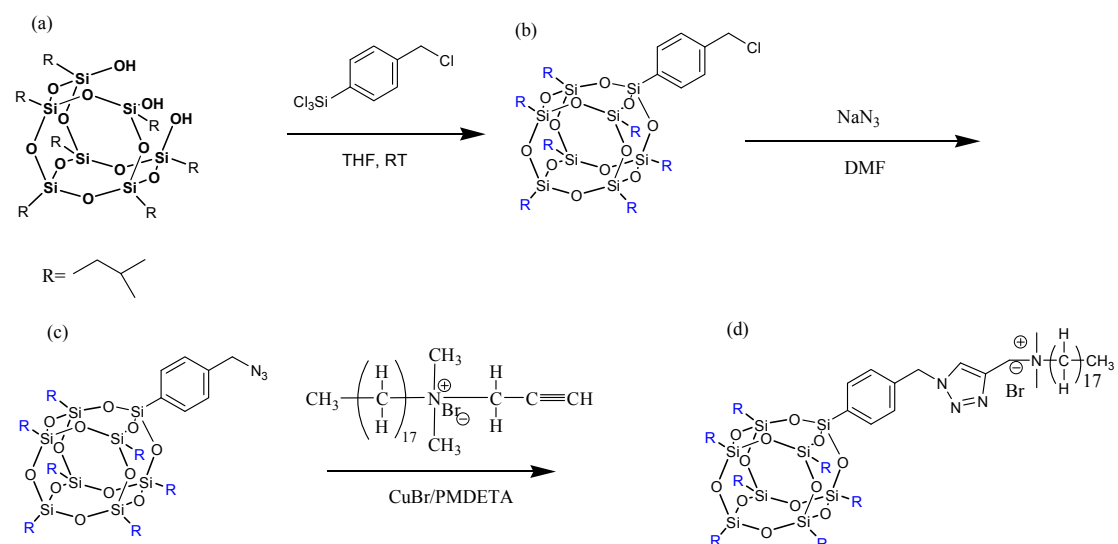
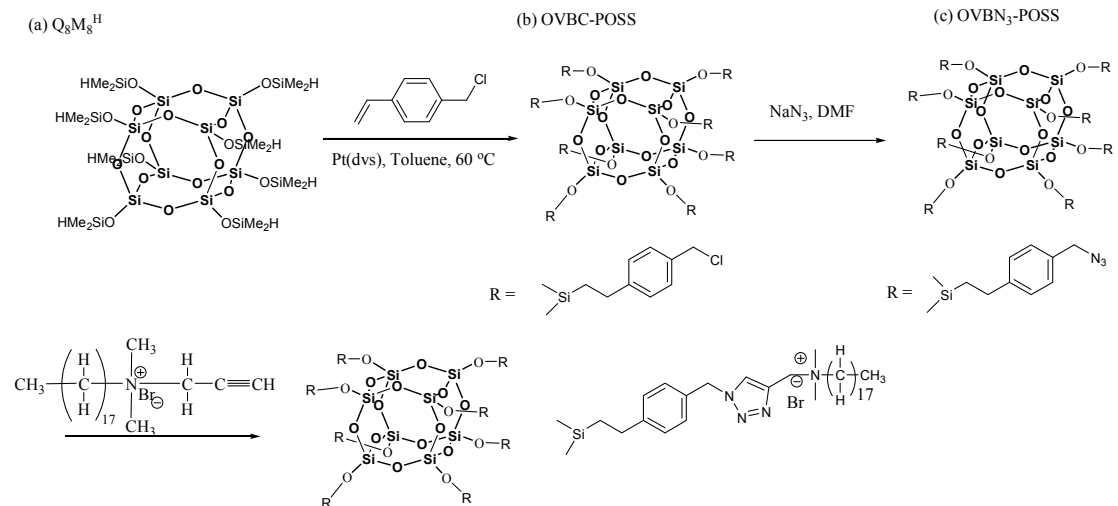


Scheme S1: The synthesis of PDS

(A)



(B)



Scheme S2: (A) The click reaction of PDS with mono-functionalized azide POSS, and
 (B) multi-functionalized azide POSS

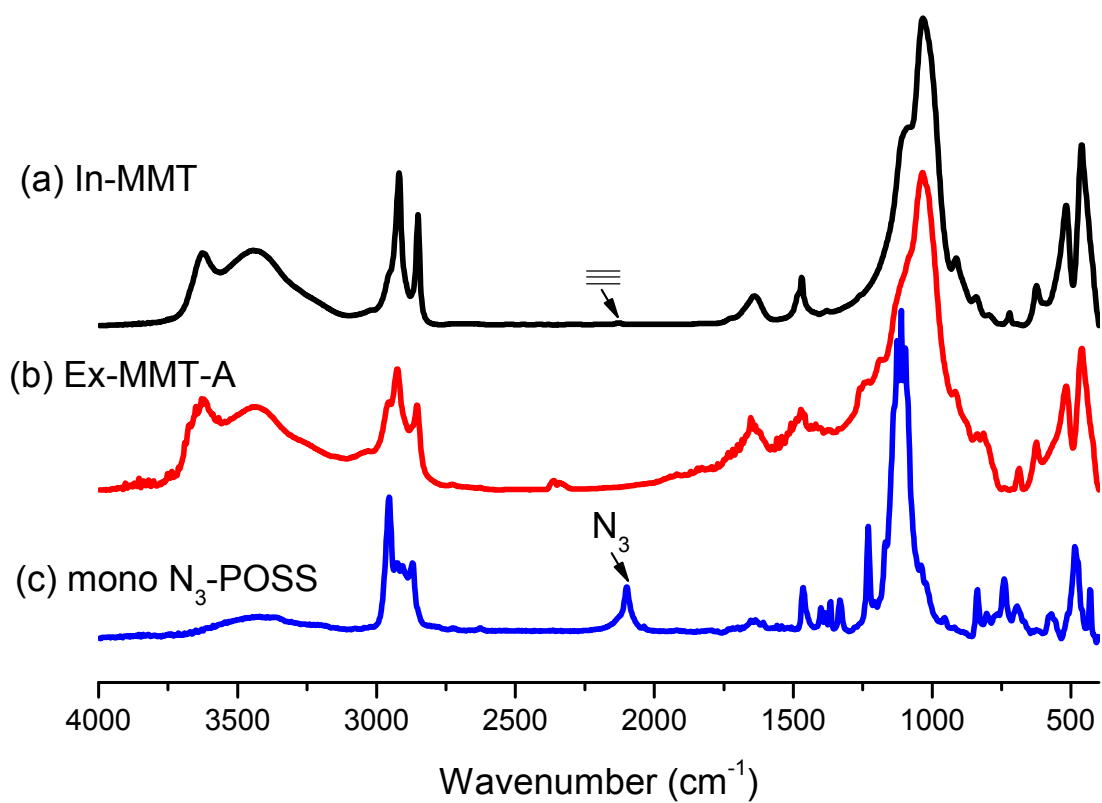


Figure S1: FTIR spectra of (a) In-MMT, (b) Ex-MMT-A, and (e) mono-N3-POSS