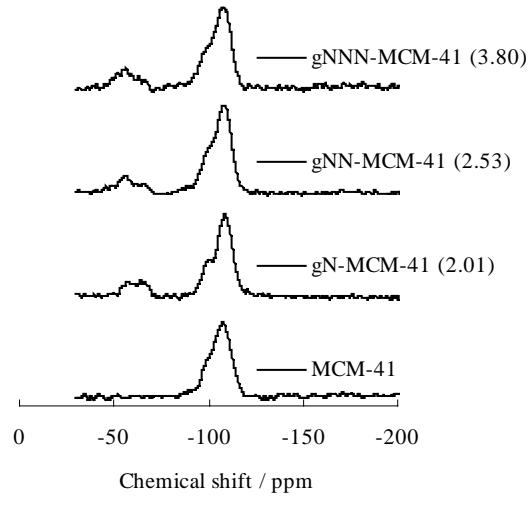
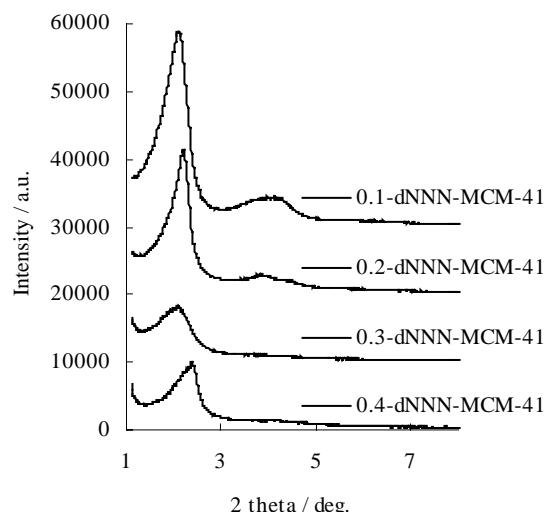
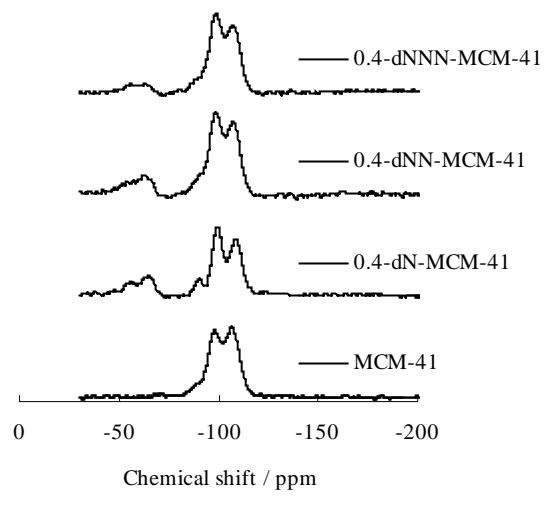
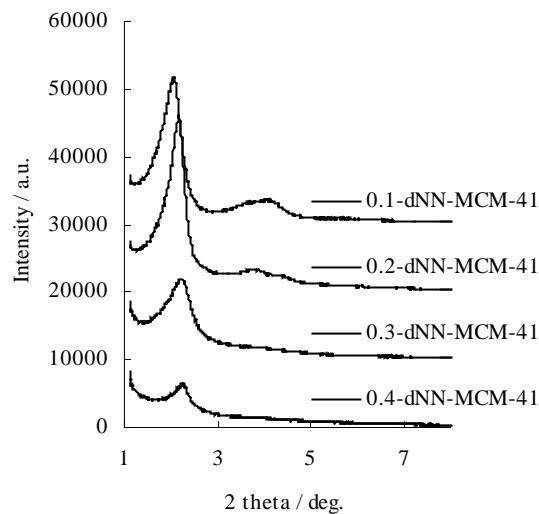


For Supporting Information



**Fig. S1** XRD patterns of (A) x-dNN-MCM-41 and (B) x-dNNN-MCM-41 after the extraction of the surfactant; where x was the proportion of the NN or NNN silanes in the Si sources.

**Fig. S2**  $^{29}\text{Si}$  MAS NMR spectra of amino-functionalized MCM-41 samples via direct co-condensation method (A): the surfactant-extracted MCM-41, and 0.4-dN-MCM-41, 0.4-dNN-MCM-41 and 0.4-dNNN-MCM-41, and via post-synthesis grafting method (B): the calcined MCM-41, and gN-MCM-41, gNN-MCM-41 and gNNN-MCM-41 under maximum level for silylations, where numbers in parentheses are fixed amino groups / mmol·g<sup>-1</sup> (See Table 2).