Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supporting Information

Regulation of the nature and site of copper species in CuNaY zeolites for the ethylene and ethane separation

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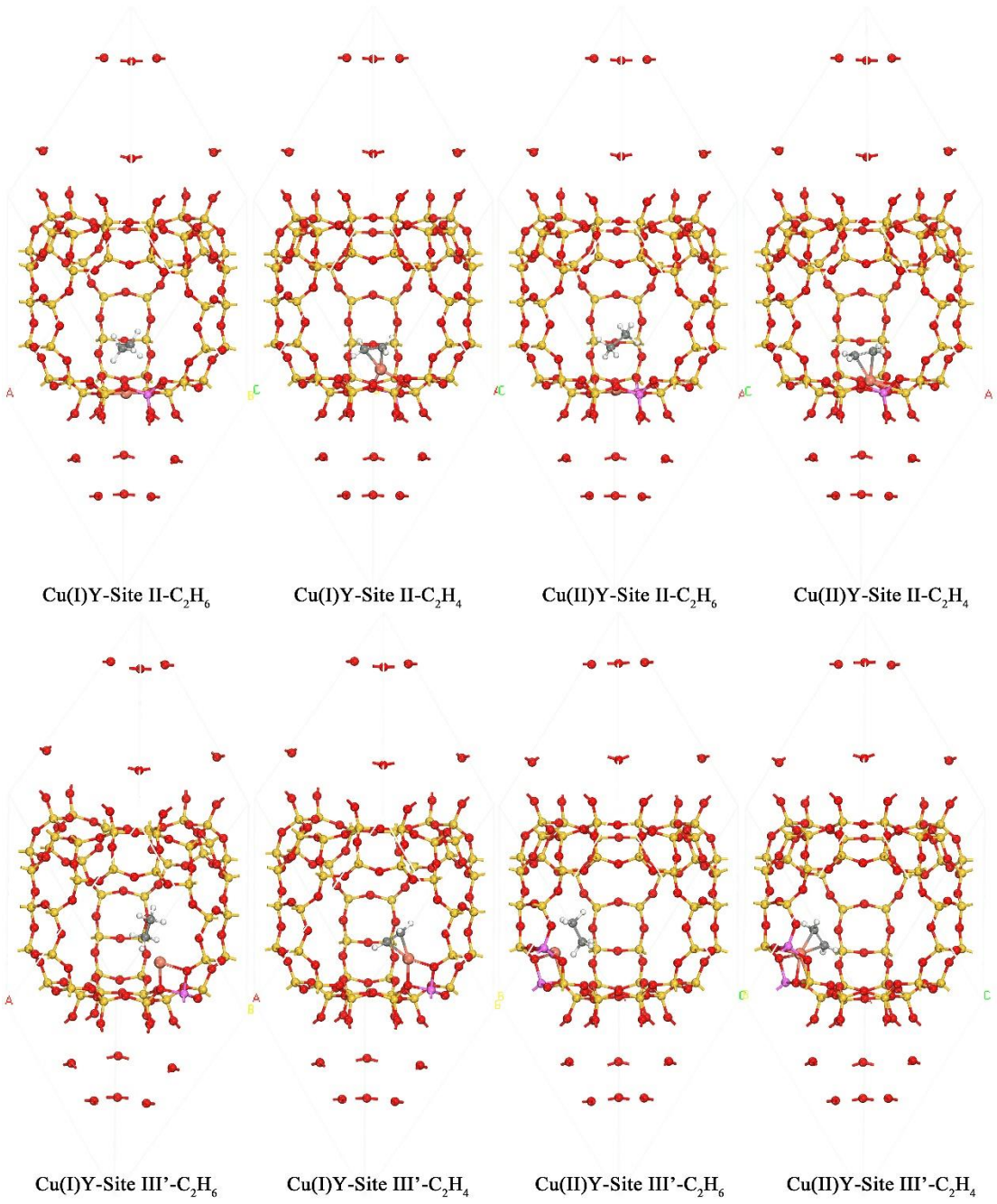

Fig. S1 The adsorption structure of ethylene and ethane with different states of Cu species on zeolites.

Tab. S1 The adsorption energy of C_2H_4 and C_2H_6 on Cu(I)Y, Cu(II)Y and NaY zeolite adsorbents.

adsorption energy (kJ/mol)	NaY	Cu(I)Y-Site II	Cu(II)Y-Site II	Cu(I)Y-Site III’	Cu(II)Y-Site III’
C_2H_4	-20.95	-159.32	-81.23	-229.34	-162.61
C_2H_6	-23.18	-29.51	-32.33	-108.58	-70.85