

ADDITIONS AND CORRECTIONS

Imre Kiricsi,* Horst Förster, Gyula Tasi, and Janos B. Nagy. Generation Characterization, and Transformations of Unsaturated Carbenium Ions in Zeolites. (*Chem. Rev.* 1999, 99, 2085. Published on the Web July 27, 1999).

The captions associated with Figures 11 and 13–22 did not correspond to the proper figures in the review. The correct figures and their corresponding captions are given below.

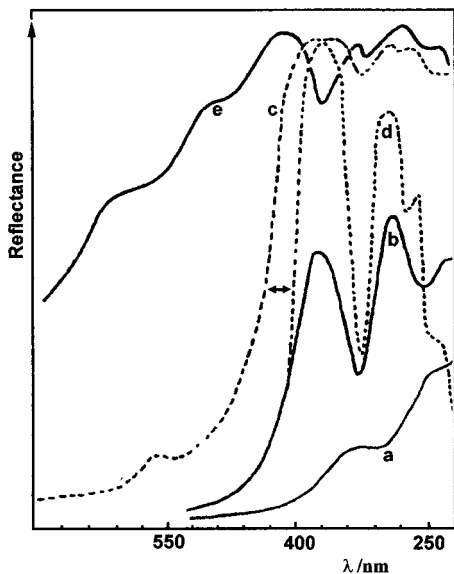


Figure 11. UV–vis spectra recorded at room temperature after activation of zeolite HZSM-5 ($\text{SiO}_2\text{:Al}_2\text{O}_3 = 28$) at 400 °C: (a) initial sample, (b) after introduction of 100 Torr of CH_3OH at room temperature and heating at 200 °C for 1 h, (c) heating overnight at 200 °C, (d) expansion of spectrum c and zero-suppressed, (e) after heating at 250 °C for 1 h. (Reprinted with permission from ref 214. Copyright 1980 Elsevier Science.)

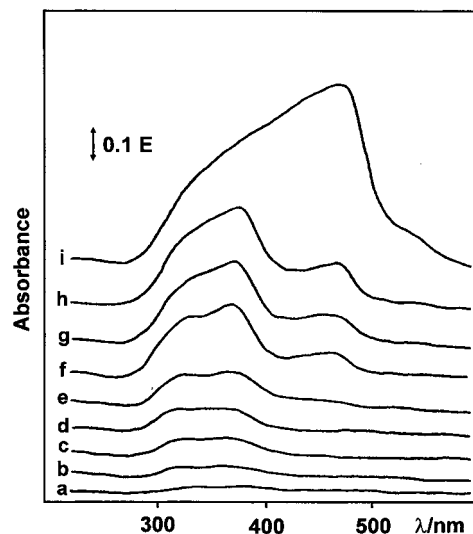


Figure 13. Electronic spectra of allyl alcohol adsorbed on zeolite HZSM-5 pretreated at 773 K in high vacuum. Spectra were recorded (a) immediately after loading the sample with 532 Pa of allyl alcohol at room temperature, (b) after 1 h, (c) after 1.5 h, (d) after 2 h, (e) after 2.5 h, (f) after 3.5 h, (g) after 4 h, and (h) after 5 h. Spectrum i was obtained after heating the system at 320 K for 0.5 h. (Reprinted with permission from ref 243. Copyright 1990 Elsevier Science.)

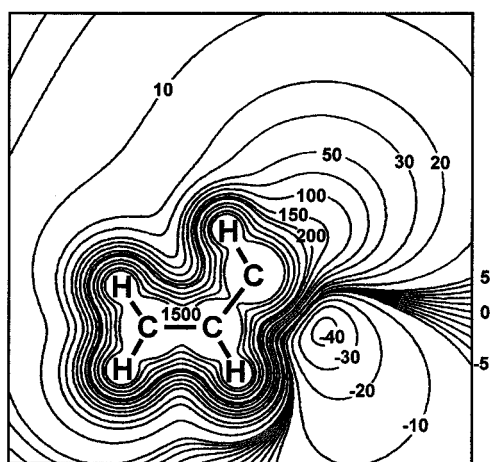
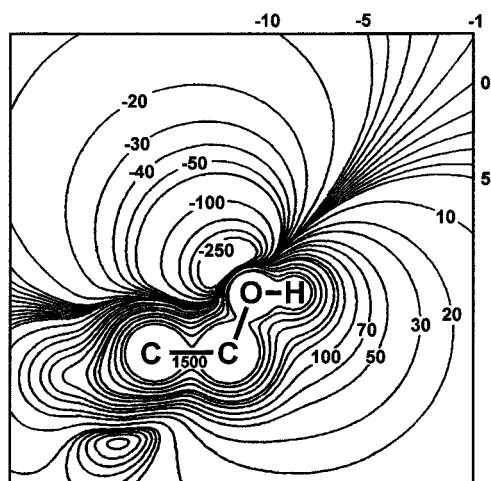


Figure 14. Electrostatic potential map of allyl alcohol in the CCO and CCC planes (data are given in kJ mol^{-1}). (Reprinted with permission from ref 243. Copyright 1990 Elsevier Science.)

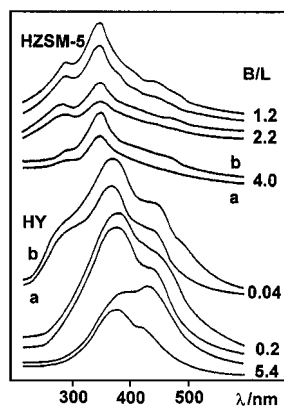


Figure 15. UV-vis spectra of allene adsorbed on HY-FAU and HZSM-5 zeolites of different Brønsted/Lewis acidity ratios (indicated on the right side of the spectra), spectrum a was recorded shortly after adsorption while spectrum b was after 1 h. (Reprinted with permission from ref 273. Copyright 1991 Elsevier Science.)

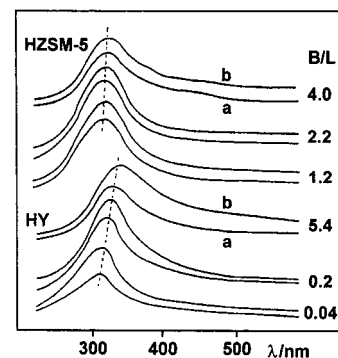


Figure 16. UV-vis spectra of propene adsorbed on HZSM-5 and HY zeolites. (For conditions, see Figure 15.)

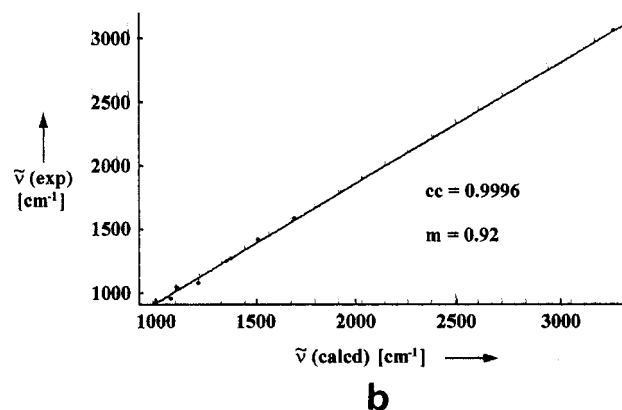
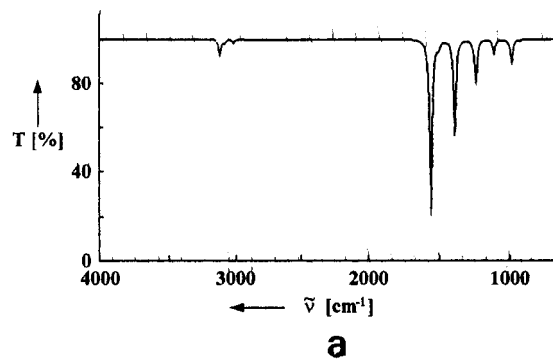


Figure 17. Calculated spectrum of allyl carbenium ion (a) and the correlation between the calculated and experimental spectra of allyl carbenium ions (b). (Reprinted with permission from ref 254. Copyright 1994 VCH.)

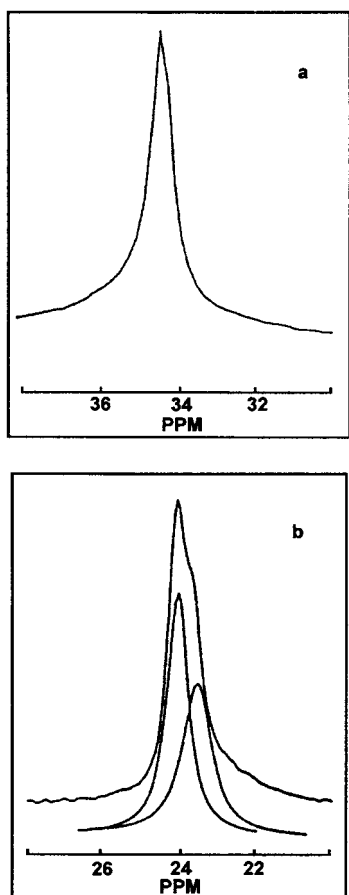


Figure 18. Aliphatic regions of ^{13}C MAS NMR spectra observed immediately after adsorption of 1 molecule/UC of (a) propene-2- ^{13}C or (b) propene-1- ^{13}C and 9 molecule/UC of benzene over HZSM-11 at 298 K. (Reprinted with permission from ref 112. Copyright 1994 Elsevier Science.)

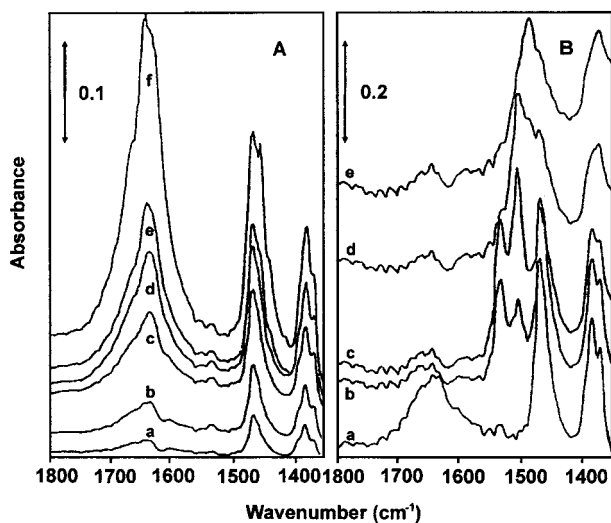


Figure 19. Difference IR spectra of H-beta zeolite after loading (A) with increasing amounts of propene (0.1–1 Torr, a–f) at 295 K and desorption (B) at 295 (a), 373 (b), 423 (c), 473 (d), and 523 K (e) for 30 min. (Reprinted with permission from ref 258. Copyright 1995 Elsevier Science.)

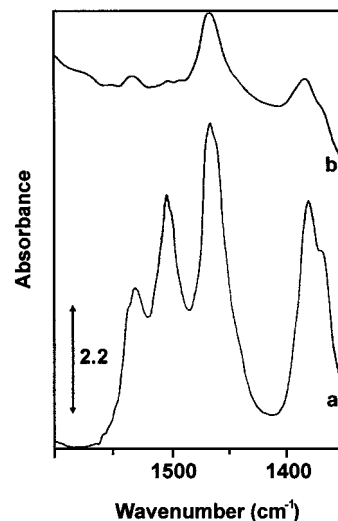


Figure 20. IR spectra of La-beta after loading of 1.33 kPa of (a) 1-butene and (b) 1-butene/isobutane mixture at 353 K for 1 min, followed by evacuation at room temperature. (Reprinted with permission from ref 160. Copyright 1995 Elsevier Science.)

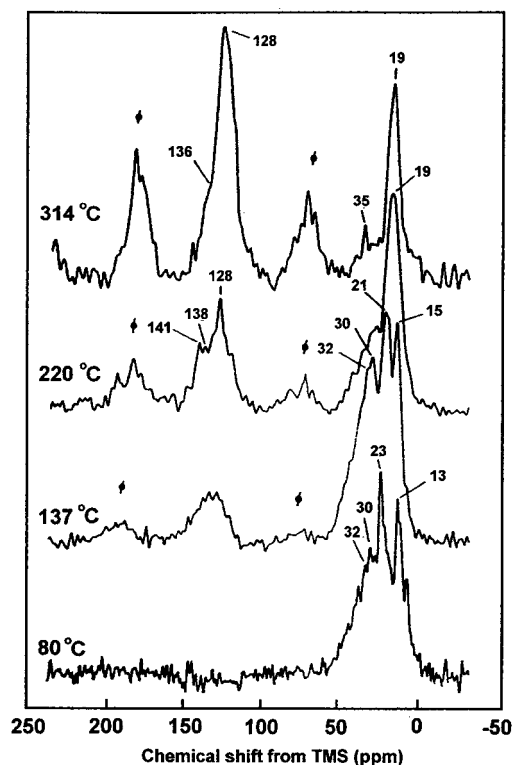


Figure 21. CP/MAS ^{13}C NMR spectra of the carbonaceous deposits from the conversion of isobutane and 1-butene on LaNaY zeolite at different temperatures. (Reprinted with permission from ref 262. Copyright 1987 Elsevier Science.)

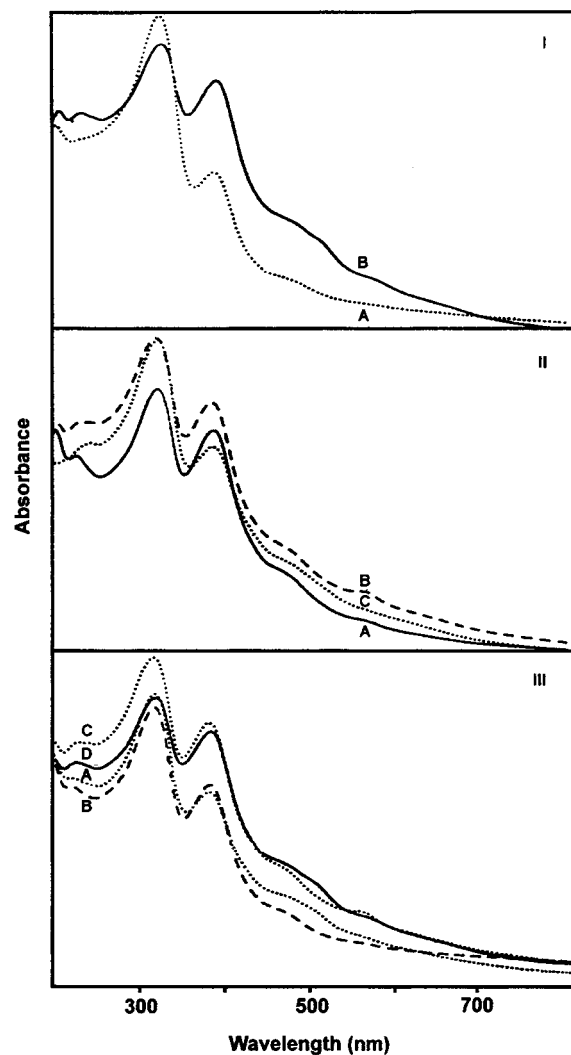


Figure 22. UV-vis spectra of LaHY-FAU used in a batch reactor for 7 h with (standard conditions) $T_{\text{act}} = 623$ K, feed = 1-butene/isobutane = 1/9, $T_{\text{react}} = 353$ K, $P = 30$ bar, and LSHV = 4.07 h^{-1} unless stated otherwise. (I) $T_{\text{react}} = 353$ (A) and 373 K (B). (II) LSHV = 2.27 (A), 3.86 (B), and 4.07 h^{-1} (C). (III) $T_{\text{act}} = 523$ (A), 623 (B), 673 (C), and 773 K (D). (Reprinted with permission from ref 261. Copyright 1995 Elsevier Science.)

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