

REFERENCES

1. K. Klier, A. Beretta, Q. Sun, O. C. Feeley, and R. G. Herman, Catal. Today, **36** (1997) 3.
2. K. Klier, Q. Sun, O. C. Feeley, M. Johansson, and R. G. Herman, in "*Proc. 11th Intern. Congr. Catal.-40th. Ann.*," (Studies in Surface Science and Catalysis), **101A**, ed. by J.W. Hightower, W.N. Delgass, E. Iglesia, and A.T. Bell, Elsevier, Amsterdam, 601 (1996).
3. L. Lietti, Q. Sun, R. G. Herman, and K. Klier, Catal. Today, **27** (1996) 151.
4. O. C. Feeley, Q. Sun, R. G. Herman, M. Johansson, L. Lietti, and K. Klier, Catal. Letters, **35** (1995) 13.
5. Q. Sun, R. G. Herman, and K. Klier, J. Chem. Soc., Chem. Commun., (1995) 1849.
6. J. G. Nunan, K. Klier, and R. G. Herman, J. Catal., **139** (1993) 406.
7. R. G. Herman, K. Klier, O. C. Feeley, and M. A. Johansson, Preprints, Div. Fuel Chem., ACS, **39(2)** (1994) 343.
8. J. Nunan, K. Klier, and R. G. Herman, J. Chem. Soc., Chem. Commun., (1985) 676.
9. J. G. Santiesteban, J. C. Vartuli, S. Han, R. D. Bastian, and C. D. Chang, J. Catal., **168** (1997) 431.
10. K. Klier, Catal. Rev., **1** (1967) 207.
11. G. F. A. Korteum, "*Reflectance Spectroscopy; Principles, Methods, Applications*," Engl. Translation by J. E. Lohr, Springer, NY (1969).
12. K. Klier, J. Opt. Soc. Am., **62** (1972) 882.
13. M. Johansson and K. Klier, Topics Catal., **4** (1997) 99; M. Johansson, Ph.D. Dissertation, Department of Chemistry, Lehigh University (1995).
14. K. Klier, R. G. Herman, R. D. Bastian, S. DeTavernier, M. Johansson, M. Kieke, and O. C. Feeley, in "*Proc. Liquefaction Contractors' Review Meeting, U.S. Department of Engery-PETC*," ed. by G. J. Stiegel and R. D. Srivastava, Pittsburgh, PA, 20-49 (1991).

15. J. H. Shen and K. Klier, J. Phys. Chem., **84** (1980) 1453.
16. J. H. Scofield, J. Electron Spectrosc. Relat. Phenom., **8** (1976) 129.
17. G. Beamson and D. Briggs, "*High Resolution XPS of Organic Polymers: The Scienta ESCA Database*," Wiley and Sons, Chichester, England (1992).
18. SPARTAN, ver. 3.1, Wavefunction, Inc., Irvine, CA, USA.
19. The DN** basis set uses polarization functions for hydrogen, is equivalent in performance to Gaussian 6-311G**, and its construction follows that in B. Delley, J. Chem. Phys., **92** (1990) 508 (Wavefunction, Inc., private communication).