

(56)

References Cited

PUBLICATIONS

- Hunger, M., et al., A New MAS NMR Prob for in situ Investigations of Hydrocarbon Conversion on Solid Catalysts Under Continuous-flow conditions, *Journal of the Chemical Society-Chemical Communications*, 14, 1995, 1423-1424.
- Hunger, M., et al., Conversion of Propan-2-ol on Zeolites LaNaY and HY Investigated by Gas Chromatography and in Situ MAS NMR Spectroscopy under Continuous-Flow Conditions, *Journal of Catalysis*, 167, 1997, 187-197.
- Hunger, M., et al., In situ MAS NMR spectroscopy of surface compounds formed from methanol and from a toluene/methanol mixture on basic zeolite X, *Journal of Molecular Catalysis A: Chemical*, 156, 2000, 153-161.
- Hunger, M., et al., A technique for simultaneous in situ MAS NMR and on-line gas chromatographic studies of hydrocarbon conversions on solid catalysts under flow conditions, *Catalysis Letters*, 57, 1999, 199-204.
- Ivanova, I. I., et al., Impact of in situ MAS NMR techniques to the understanding of the mechanisms of zeolite catalyzed reactions, *Chemical Society Reviews*, 39, 12, 2010, 5018-5050.
- Krawietz, T. R., et al., Alkali Metal Oxides, Peroxides, and Superoxides: A Multinuclear MAS NMR Study, *Journal of Physical Chemistry A*, 102, 45, 1998, 8779-8785.
- Seiler, M., et al., Conversion of methanol to hydrocarbons on zeolite HZSM05 investigated by in situ MAS NMR spectroscopy under flow conditions and on-line gas chromatography, *Catalysis Letters*, 62, 1999, 139-145.
- Ivanova, I. I., Application of in situ MAS NMR for elucidation of reaction mechanisms in heterogeneous catalysis, *Colloids and Surfaces A—Physicochemical and Engineering Aspects*, 158, 1999, 189-200.
- Haw, J. F., In situ NMR of heterogeneous catalysis: new methods and opportunities, *Topics in Catalysis*, 8, 1999, 81-86.
- Haw, J. F., et al., In Situ NMR Investigations of Heterogeneous Catalysis with Samples Prepared under Stand and Reaction Conditions, *Angewandte Chemie-International Edition*, 37, 7, 1998, 948-949.
- Carpenter, T. A., et al., Sealed Capsules for Convenient Acquisition of Variable-Temperature Controlled-Atmosphere Magic-Angle-Spinning NMR Spectra of Solids, *Journal of Magnetic Resonance*, 68, 1986, 561-563.
- Xu, T., et al., The development and applications of CAVERN methods for in situ NMR studies of reactions on solid acids, *Topics in Catalysis*, 4, 1997, 109-118.
- Zhang, W., et al., A high-resolution solid-state NMR study on nanostructured HZSM-5 zeolite, *Catalysis Letters*, 60, 1999, 89-94.
- Zhu, K., et al., Characterization of Dispersed Heteropoly Acid on Mesoporous Zeolite Using Solid-State ^{31}P NMR Spin-Lattice Relaxation, *Journal of the American Chemical Society*, 131, 28, 2009, 9715-9721.
- Van Gorkum, L. C. M., et al., Solid-State Lead-207 NMR of Lead(II) Nitrate: Localized Heating Effects at High Magic Angle Spinning Speeds, *Magnetic Resonance in Chemistry*, 33, 1995, 791-795.
- Te Velde, G., et al., Chemistry with ADF, *Journal of Computational Chemistry*, 22, 9, 2001, 931-967.
- Herrera, J. E., et al., Synthesis, characterization, and catalytic function of novel highly dispersed tungsten oxide catalysts on mesoporous silica, *Journal of Catalysis*, 239, 1, 200-211.
- Macht, J., et al., Mechanistic Consequences of Composition in Acid Catalysis by Polyoxometalate Keggin Clusters, *Journal of the American Chemical Society*, 130, 31, 2008, 10369-10379.
- Harris, R. K., et al., NMR Spectra of the BnAA'Bn' Type Studies of But-2-ene and Related Compounds, *Journal of Molecular Spectroscopy*, 28, 1968, 191-203.
- Jackman, L. M., et al., The Nuclear Magnetic Resonance Spectrum of 2-Butanol, *Journal of the American Chemical Society*, 88, 23, 1966, 5565-5570.
- Wiitala, K. W., et al., Evaluation of various DFT protocols for computing ^1H and ^{13}C chemical shifts to distinguish stereoisomers: diastereomeric 2-, 3-, and 4-methylcyclohexanols as a test set, *Journal of Physical Organic Chemistry*, 20, 2007, 345-354.

* cited by examiner