

List of Publications:

1. Promoter-Induced enhancement of the crystallization rate of zeolites and related molecular sieves" Rajiv Kumar, Asim Bhaumik, **Ranjeet Kaur Ahedi** and Subramanian Ganapathy. *Nature* **381** (1996) 298.
2. "Titanosilicate derivative of NU-1 framework zeolites (TS-NU-1), **Ranjeet Kaur Ahedi**, S.S.Shevade and A.N.Kotasthane, *Zeolites* , **18** (1997) 361.
3. Synthesis and characterization of ferrisilicate analogs of ferrierite (Fe-FER) zeolite S.S.Shevade, **Ranjeet Kaur Ahedi** and A.N.Kotasthane, *Catalysis letters* , **49** (1997) 69-75.
4. Studies in the crystallization of Ferrierite (FER) type zeolites in presence of promoting medium, **Ranjeet Kaur Ahedi** and A.N.Kotasthane, *Journal of Porous Materials*, **4** (1997) 171-179.
5. Interpreting the oxidative catalytic activity in Iron substituted Ferrierite using insitu Mössbauer spectroscopy, K.Lazar, G.Leieune, **Ranjeet Kaur Ahedi**, S.S.Shevade and A.N.Kotasthane, *Journal of Physical Chemistry B* **102** (1998) 4865.
6. Synthesis of FER titanosilicates from non-aqueous alkali free seeded system, **Ranjeet Kaur Ahedi** and A.N.Kotasthane, *J.Mat.Chem* **8** (1998) 1685.
7. A Novel titanium analog of NU-1 framework zeolites (TS-NU-1), **Ranjeet Kaur Ahedi**, S.S. Shevade and A.N. Kotasthane *Stud. Surf. Sci. Catal.* **113** (1997) 201.
8. Synthesis of silicalite-1 in bicontinuous microemulsion containing AOT, A. Manna, B.D. Kulkarni, **Ranjeet Kaur Ahedi**, A. Bhaumik and A.N. Kotasthane, *J. Colloids and interfaces* (in press).
9. Triphase catalysis over zeolite H-Beta : Application to organic synthesis, **Ranjeet Kaur Ahedi**, Asim Bhaumik and A.N.Kotasthane *J. Mol. Cata.* (communicated).
10. Orienting Effect of AOT in synthesis of ferrierite, **Ranjeet Kaur Ahedi**, A. Manna, A.N. Kotasthane and B.D. Kulkarni (communicated).
11. Selective formation of Para Xylene on ferrierite type zeolites ; **Ranjeet Kaur Ahedi**, B.S. Rao and A.N. Kotasthane (under preparation).
12. Epoxidation of Styrene on metallosilicate analogs of Ferrierite zeolite, R,Anand; S.S. Shevade; **Ranjeet Kaur Ahedi** and B.S. Rao; *Appl. Catal.* (communicated)
13. Detail NMR study on Ferrierite type zeolites, P. Benezier, **Ranjeet Kaur Ahedi**, S.Ganapathy and A.N. Kotasthane (under preparation).
14. Benzene alkylation with ethanol on ferrierite type zeolites, Siddhesh Shevade, **Ranjeet Kaur Ahedi**, A.N. Kotasthane and B.S. Rao; Catsymp.'98 Chennai.
15. Synthesis of Ferrierite (FER) type zeolite in presence of a anionic surfactant, **Ranjeet Kaur Ahedi**, Abhijit Manna and A.N. Kotasthane. Bulletin of the

Catalysis Society of India, Vol 9, Issues 1&2, Jan and Mar '99 pg. 148.

16. Ferrierite Zeolite in meta-xylene isomerization, **Ranjeet Kaur Ahedi**, B.S. Rao and A.N. Kotasthane, Poster Presentation, NCL Golden Jublie year (1999).
17. "Non-templated synthesis of Ferrierite (FER) type zeolites" **Ranjeet Kaur Ahedi**; S.S. Shevade and A.N. Kotasthane; presented at 12th Workshop on Catalysis; Bhavnagar' 95.

List of patent:

1. A process for preparation of Novel Ti-rich NU-1 zeolite. **Ranjeet Kaur Ahedi**, A.N. Kotasthane and A.V. Ramaswamy; IP NF 57/97.
2. A process for preparation of crystalline ferrierite type zeolite. **Ranjeet Kaur Ahedi**, A.N. Kotasthane, A.V. Ramaswamy; IP NF 201/97.
3. A process for preparation of crystalline titanosilicat ferrierite (FER) from non-aqueous medium. **Ranjeet Kaur Ahedi**, A.N. Kotasthane, A.V. Ramaswamy; IP NF 201/97.
4. A process for preparation of crystalline Ferrisilicate Ferrierite type zeolite. **Ranjeet Kaur Ahedi**, A.N. Kotasthane, A.V. Ramaswamy; IP NF 207/97.
5. A process for xylene isomerization. **Ranjeet Kaur Ahedi**, B.S. Rao, C. Kavedia and A.N. Kotasthane. (filed)