

## LIST OF PUBLICATIONS

1. Aniline as a stabilizer for metal nanoparticles, Anjali A. Athawale, S. V. Bhagwat, *Prachi P. Katre*, Asha J. Chandwadkar and P. Karandikar, *Materials Letters*, 57, (2003), 3889-3894.
2. Au-Polyaniline nanocomposite : Sensor for methanol vapours, Anjali A. Athawale, S. V. Bhagwat and *Prachi P. Katre*, *Asian Journal of Physics*, 2 and 3, (2003), 331-338.
3. Ag dispersed conducting polyaniline nanocomposite as a selective sensor for ammonia, Anjali A. Athawale and *Prachi P. Katre*, *Journal of Nanocrystalline and Metastable Materials*, 23, (2005), 323-326.
4. Synthesis of CTAB-IPA reduced copper nanoparticles, Anjali A. Athawale, *Prachi P. Katre*, Manmohan Kumar, Megha B. Majumdar, *Materials Chemistry and Physics*, 91, (2005), 507-512.

5. Nonaqueous phase synthesis of copper nanoparticles, Anjali A. Athawale, **Prachi P. Katre** and Megha B. Majumdar, Journal of Nanoscience and Nanotechnology, 5 and 6, (2005), 991-994.
6. Nanocomposite of Pd-polyaniline as a selective methanol sensor, Anjali A. Athawale, S. V. Bhagwat and **Prachi P. Katre**, Sensors and Actuators B : Chemical, 12, (2005), 843-850.

### PAPERS COMMUNICATED

1. Aqueous phase synthesis of Polypyrrole nanofibres, Anjali A. Athawale, **Prachi P. Katre**, S. V. Bhagwat and A. H. Dhamane, Journal of Applied Polymer Science.
2. Ultrasound assisted synthesis of polyaniline nanofibres, **Prachi P. Katre**, Anjali A. Athawale and A. H. Dhamane, Materials Letters.

## PAPERS PRESENTED AT SEMINARS AND SYMPOSIA

1. Au-Polyaniline Nanocomposite Synthesized using  $\gamma$ -ray Induced Au Nanoparticles, Prachi P. Katre and Anjali A. Athawale, International Conference on Advances in Nanotechnology, held at Sun and Sand, Pune, 27<sup>th</sup>- 29<sup>th</sup> Nov. 2006.
2. Au-Polyaniline nanocomposite synthesized using  $\gamma$ -ray induced Au nanoparticles, Anjali A. Athawale and Prachi P. Katre, International seminar on Advances in Polymer Technology (APT' 04) held at Kochi on 16<sup>th</sup> & 17<sup>th</sup> Jan.2004.
3. Comparative study of Poly N-methyl Aniline and Poly N-ethyl Aniline as ammonia sensor (Second prize) Anjali A. Athawale and Prachi P. Katre, 10<sup>th</sup> National seminar on Physics and Technology of sensors held in Pune from 4th-6th March 2004.
4. Ag-Polyaniline Dispersed Conducting Polyaniline Nanocomposite as a Selective Sensor for Ammonia, Anjali A. Athawale and Prachi P. Katre, 2<sup>nd</sup> International Conference on materials for advanced Technologies held at Suntec city, Singapore from 7-12<sup>th</sup> Dec. 2003.

5. Au/Polyaniline nanocomposite sensitive to Methanol Vapours, Anjali A. Athawale and Prachi P.Katre 14<sup>th</sup> AGM-MRSI Symposium held in Mumbai on 'Novel Polymeric Materials' between 11-13 Feb.2003.