

## List of Publications

### **PATENTS :**

1. A process for preparation of co-polymers having enhanced thermal stability.  
**S. D. Deshpande** and S. Radhakrishnan  
Indian Patent Appl. No. 1975/DEL/98, (1998)
2. A process for preparation of conducting polymer having high sensitivity for use in chemical sensor devices.  
**S. D. Deshpande** and S. Radhakrishnan  
Indian Patent Appl. No. 281/DEL/99 Dated 19-2-1999
3. An improved process for deposition of conducting polymer films on insulated substrates having interdigitated electrodes for use in electrochromic devices.  
**S. D. Deshpande** and S. Radhakrishnan  
Indian Patent Appl. No. NF 35/98 Dated 23-1-1998

### Papers presented in Conferences/symposiums :

1. Direct Electrochemical Synthesis of Conducting Polymers  
Functionalized with Phthalocyanine.  
**S. D. Deshpande** and S. Radhakrishnan  
III<sup>rd</sup> National Conference on Electrochemicals,  
BARC, Mumbai India. (1997)
2. Conducting polymers functionalized with Phthalocyanine :  
Electrochemical synthesis, properties and applications.  
**S. D. Deshpande** and S. Radhakrishnan  
Trans. SAEST, 33 (2-3), 125 (1998)

3. Conducting polymers sensitized with organic dyes: New materials for electronics and optoelectronics.  
**S. D. Deshpande** , S. Radhakrishnan and P. Somani  
International conference on material science (IUMRS) Bangalore-India (1998)
4. Structure and Electrical properties of conducting polypyrrole functionalized with Phthalocyanine.  
**S. D. Deshpande** and S. Radhakrishnan  
IX th National convention of Electrochemist, SAEST Surat chapter  
Surat, India November (1999)
5. Structure and Electrical properties of conducting polyaniline functionalized with phthalocyanine.  
**S. D. Deshpande** and S. Radhakrishnan  
Symposium on condensed matter Physics, (IACS)  
Indian Association for the Cultivation of Sciences,  
Calcutta, India Dec. 4-6 (1999).