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Division: Polymer Science and Engineering Division

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Education and experience

- PhD (Indian Institute of Technology, Kharagpur)
- Post-doc (Tokyo Institute of Technology, Tokyo)
- Visiting Scientist (Austria)

Achievements

Research subjects:

- Polymer Science and Engineering Division

Research Areas

- Synthesis of Biocompatible and Biodegradable Polymers
- Synthesis of Drug conjugated-Biocompatible and Biodegradable Polymers
- Nanofibres by Electrospinning
- Preparation of polymer supported catalyst for C-C bond formation
- ^{13}C solid CP/MAS NMR of polymers
- Polypeptides as a drug for multiple sclerosis and Cancer

Recent publications

1. Balaji S. Selukar, Asutosh K. Pandey, Smita S. Nande, Avinash Bansode, **Baijayantimala garnaik*** Novel Solid Cloisite Tin Catalyzed Polymerization of L-Lactide, **Journal of Chemistry and Chemical Engineering**, 6 (2012) 54-60.
2. Balaji S. Selukar, Sharad P. Parwe, Kavita K. Mohite, **Baijayantimala garnaik*** Synthesis of Linear Polylactic Acid –Based Urethanes Using Tin modified Cloisite -30B Catalyst, *Advance Material Letters* (**Accepted, Feb., 2012**).
3. Asutosh K. Pandey, Smita S. Nande, Balaji S. Selukar, **Baijayantimala garnaik***, **e-Polymer 2010, no.131. P.1-12.**
4. A PROCESS FOR THE PREPARATION OF CO-POLYMER-1, PCT/IN 2009/000320 (ref. (0037NF2007-WO), **B. Garnaik**, 2007.
5. S. Shyamroy, **B. Garnaik**, S. Sivaram, Poly (L-lactic Acid) s prepared by L-lactic Acid using Organo tin catalysts, **J. of polymer Science, Part A**, 2005, 43, 2164-2177.