

A. Publication in Peer reviewed journals (2009):

1. **Jayashree Nath**, H. Ghosh, R. Yella, Bhisma K. Patel (2009) Molecular Iodine Mediated Preparation of Isothiocyanates from Dithiocarbamic Acid Salts, *European Journal of Organic Chemistry*, 12, 1849 – 1851.
2. Kasturi Dutta, **Shampa Sen** and Venkata V. Dasu (2009) Production, characterization and applications of microbial cutinases, *Process Biochem.*, 44, 127-134.
3. **Bedabrata Saha**, Saswati Chakraborty, Gopal Das (2009) A mechanistic insight into enhanced and selective phosphate adsorption on a coated arboxylated surface, *Journal of Colloid and Interface Science* 331(1), 21-26.
4. **Suresh Pandian**, Sharad Gokhale, Alope K. Ghoshal (2009) Evaluating effects of traffic and vehicle characteristics on vehicular emissions near traffic intersections, *Transportation Research Part D: Transport and Environment*, 14 (3), 180-196.
5. **J. Anandkumar**, Bisnupada Mandal, (2009) 'Removal of Cr(VI) from aqueous solution using Bael fruit (*Aegle marmelos Correa*) shell as an adsorbent', *Journal of Hazardous Materials*, 168, 633-640.
6. **Deepmoni Deka**, Shadab Ahmed, Nadeem Akhtar, Sangeeta Bharali, Mohammad Jawed, Carlos M.G.A. Fontes, Dinesh Goyal and Arun Goyal (2009) Determining substrate specificity and biochemical characterization of a full length recombinant cellulase (Lic26A-Cel5-CBM11) of *Clostridium thermocellum*. *Journal of Applied Bioscience and Biotechnology* 5(1) 13-18.
7. **Bedabrata Saha**, Gopal Das (2009) 'Malachite Nanoparticle: A New Basic Hydrophilic Surface for pH-Controlled Adsorption of Bovine Serum Albumin with a High Loading Capacity. *Journal of Physical Chemistry*, 113 (35), 15667–15675.
8. **Shampa Sen**, Venkata V. Dasu, Bishnupada Mandal (2009) Medium development for enhanced production of alkaline protease from a newly isolated *Bacillus pseudofirmus* SVB1, *Asia Pacific Journal of Chemical Engineering*, 5 (6), 925-931.
9. **Shampa Sen**, Venkata V. Dasu, Bishnupada Mandal (2009), Effect of physical parameters, carbon and nitrogen sources on the production of alkaline protease from a newly isolated *Bacillus pseudofirmus* SVB1 *Annals of Microbiology*, 59 (3)531-538.

B. CONFERENCES AND SEMINARS (2009):

1. **Rajib L.Deka**, Chandan Mahanta and K.K.Nath (2009). Trends and fluctuations of temperature regime of North East India. International Workshop on Impact of Climate Change on Agriculture held at Space Applications Centre, ISRO, Ahmedabad during December 17-18, 2009, pp: 376-380.

2. **J. Anandkumar** and Mandal, B. (2009). Equilibrium and kinetic modeling of Malachite green and Cu (II) adsorption by surface enhanced *Aegle marmelos correa* shell. "The Indian Chemical Engineering Congress" (CHEMCON- 2009), Dec 27-30, Visakhapatnam, INDIA.
3. **Naresh K. Sahoo**, Kanan Pakshirajan, Pranab K. Ghosh (2009) Effect of Culture Conditions and Degradation Kinetics of *Arthrobacter chlorophenolicus* A6 Enhancing the Biodegradation of 4-Chlorophenol (Poster). Int conference on Emerging Trend in Biotechnology. VI Convention of BRSI, Organized by Department of Biotechnology of Banaras Hindu University Varanasi 4 - 6 Dec 2009.
4. **Anandkumar J** and Mandal, B. (2009). Utilization of *Aegle Marmelos Correa* Fruit Shell as a Novel Sorbent for Methylene Blue Adsorption. "Spring National Meeting of "The American Institute of Chemical Engineers" (AIChE-2009), April 26-30, Tampa (FL), USA, North America.
5. **Deepmoni Deka**, Ashish Sharma, Dinesh Goyal and Arun Goyal (2009) Partial purification and characterization of an alkaline carboxymethyl cellulase from a new isolate of *Bacillus* sp. "International Conference on Emerging Trends in Biotechnology", December 2-6, 2009, Banaras Hindu University, Varanasi, India, p-179.
6. **Shampa Sen**, Venkata V.Dasu and Bisnupada Mandal (2009). Applications of Alkaline Protease from a Newly Isolated *Bacillus pseudofirmus* SVB1 in Abattoir Solid Waste Solubilization. The Indian Chemical Engineering Congress (CHEMCON 2009), Dec 27-30, Visakhapatnam, INDIA.
7. **Shampa Sen**, Bisnupada Mandal and Venkata V.Dasu (2009). Alkaline Protease: a Tool to Clean Environment. AIChE Spring National Meeting, April 26-30, 2009, Tampa (FL), USA.
8. **Deepmoni Deka**, P. Bhargavi, Shuchi Singh, Saprativ P. Das., Ashish Sharma, Dinesh Goyal, Mohammad Jawed and Arun Goyal (2009) Activity enhancement of an alkaline cellulase from a new isolate of *Bacillus* sp. (AS3) by Statistical methods. "50th Annual Conference of Association of Microbiologists of India", December 15-18, 2009, National Chemical Laboratory, Pune, GM-117, p210.

C. PATENTS

"A clean process for the preparation of alkyl and aryl isothiocyanates", Bhisma K. Patel, Jayashree Nath, Patent application No. 2138/KOL/2008, Dated: 11-12-2008.

Process for preparing pyridinium fluorochromate (VI) Mihir Kanti Chaudhuri, S.K.Dehuri, U.Bora, Jayashree Nath, B.M.Choudary and M Lakshmi Kantam, Patent USP 6852859 dated 08-02-2005.