

Curriculum Vitae

Debashish Roy

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CURRENT POSITION

Postdoctoral research associate under the supervision of Professor Brent Sumerlin, Southern Methodist University, Dallas, Texas

RESEARCH INTERESTS

Design and synthesis of monomers and (co) polymers via controlled/ "living" radical polymerization techniques; Characterizations of (co)polymers; Modification of natural fibers; Stimuli-responsive (co)polymers for biomedical applications.

KEY SKILLS AND ATTRIBUTES

- LEADERSHIP** I have played the role of advisor to the BSc., MSc. and new Ph.D. students in the lab. This has allowed me to learn most aspects of all the projects in the lab and has provided me with key experience in leadership and project management.
- TECHNICAL** I have been exposed to a diverse array of techniques in polymer synthesis and characterization, such as: living free radical, ionic, emulsion and suspension polymerization techniques. I am well versed in the use of UV-Vis, ATR FT-IR, FT-Raman, Microwave, NMR, GPC, SEM, AFM, DLS, DSC and TGA instruments.

EDUCATION

Nov'2003 – Nov'2006	Ph.D. in Polymer Chemistry, University of Leeds, Leeds, UK
SEP' 2002 – SEP' 2003	MSci. (Design and Manufacture), De Monfort University, Leicester, UK.
JULY 1991 – JULY1995	BSci. (Natural Fiber Chemistry & Technology), University of Dhaka, Bangladesh.
JULY 1989- JULY1991	Higher Secondary Certificate, Government Science College, Dhaka, Bangladesh.
MAR' 1987- MAR' 1989	Secondary School Certificate, Government Science College, Dhaka, Bangladesh.

WORK EXPERIENCE AND TRAINING

JAN' 2000– SEP' 2001	Lecturer, College of Leather Technology, University of Dhaka, Bangladesh. Job responsibility included teaching, demonstrating experiments in the laboratory and supervising research projects.
OCT' 2, 2000–OCT '5, 2000	Techniques of GC/MS, Varian, Wood Dale, Illinois, USA.

SCHOLARSHIPS, AWARDS AND MEMBERSHIP

2003-2006	Scholarship to pursue his PhD from the Department of Colour and Polymer Chemistry, University of Leeds, UK
2005	The Macro Group D. H. Richards Memorial Bursary
2005	Associate Member, The Royal Society of Chemistry. UK
2006-	Member, American Chemical Society

CONFERENCE PRESENTATIONS

11 TH -12 TH APRIL, 2007 NOTTINGHAM	Macro Group's annual meeting for young researchers Poster Contribution
12 TH -13 TH SEP, 2006 WAKEFIELD	UK Polymer Showcase Poster Contribution
31 ST JULY-3 RD AUG, 2006 WARWICK	International Polymer Conference Oral Contribution
28 TH AUG'-1 ST SEP', 2005 WASHINGTON D.C.	230 th ACS Fall Meeting & Exposition Poster Contribution
5 TH -8 TH JULY, 2005 EDINBURGH	MC7: Functional Materials for the 21 st Century Poster Contribution
24 TH JUNE, 2005 LIVERPOOL	Macro Group one day meeting (Innovative Polymer Synthesis –From Molecules to Microns) Poster Contribution
13 TH -15 TH SEP', 2004 QUEEN MARY, UNIVERSITY OF LONDON	Materials Discussion 7: From Molecules to Materials Poster Contribution
7 TH -8 TH SEP', 2004 WAKEFIELD	UK Polymer Showcase Poster Contribution

PUBLICATIONS

- **Roy, Debashish**, Cambre, Jennifer N., Sumerlin Brent S. *Sugar-responsive Block Copolymers by Direct RAFT Polymerization of Unprotected Boronic Acid Monomers*, Chemical Communications, **2008**, (in press).
- **Debashish Roy**, Knapp, Jeremy S, James T. Guthrie and Sébastien Perrier, *Antibacterial Cellulose Fiber via RAFT Surface Graft Polymerization*, Biomacromolecules, **2008**, 9, 91-99.
- **Debashish Roy**, James T. Guthrie and Sébastien Perrier, *Synthesis of Natural-synthetic Hybrid Materials from Cellulose via the RAFT Process*, Soft Matter, **2008**, 4, 145-155.
- Cambre, Jennifer N., **Roy, Debashish**, Gondi, Sudershan R., Sumerlin Brent S. *Facile Strategy to Well-defined Water-soluble Boronic Acid (Co)polymers*, Journal of the American Chemical Society, **2007**, 129, 10348-10349.
- **Debashish Roy**, James T. Guthrie and Sébastien Perrier, *Reversible Addition-Fragmentation Chain Transfer (RAFT) Graft Polymerization of 2-(Dimethylaminoethyl) methacrylate onto Cellulose Fiber*, Australian Journal of Chemistry, **2006**, 59, 737-741.
- Tian Tang, Valeria Castelletto, Petros Parras, Ian W Hamley, Stephen M King, **Debashish Roy**, Sébastien Perrier, Richard Hoogenboom and Ulrich S Schubert, *Thermo-responsive Poly(methyl methacrylate)-b-poly(N-isopropyl acrylamide) Block Copolymers Synthesized by RAFT Polymerization: Micellization and Gelation*, Macromolecular Physics and Chemistry, **2006**, 207, 1718-1726.
- Sébastien Perrier, Pittaya Takolpuckdee, Steven Brown, Thomas M. Legge, **Debashish Roy**, Murray R. Wood, Steven P. Rannard, and David J. Duncalf, *Progress in RAFT/MADIX Polymerization. Synthesis, Use, and Recovery of Chain Transfer Agents*, ACS Symposium: Progress in CLRP, **2006**, 30, 438-454.
- **Debashish Roy**, *Controlled Modification of Cellulosic Surfaces via the Reversible Addition- Fragmentation Chain Transfer (RAFT) Polymerization Process*, Australian Journal of Chemistry, **2006**, 59, 229.

- **Debashish Roy**, Pittaya Takolpuckdee, Youliang Zhao, and Sébastien Perrier, *Novel Solid Supported Polymers via RAFT Polymerization*, ACS PMSE Preprint, **2006**,
- **Debashish Roy**, James T. Guthrie and Sébastien Perrier, Graft Polymerization: *Grafting Poly(styrene) from Ccellulose via Reversible Addition-fragmentation Chain Transfer (RAFT) Polymerization*, Macromolecules, **2005**, 38, 10363-10372.
- **Debashish Roy**, James T. Guthrie and Sébastien Perrier, *Novel Synthesis of Cellulosic Graft Copolymers by Reversible Addition-Fragmentation Chain Transfer (RAFT) Process*, ACS Polymer Preprint, **2005**, 46, 2.
- **D. Roy**, R. Chen and P. Callaghan, *Study of Bond Strengths of a Water-borne Polyurethane (PU) Adhesive for Shoe Soling Materials*, Journal of Textile Institute, **2005**, 96, 17-19.

REFEREES

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