

Curriculum Vitae

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Research Experience	<ul style="list-style-type: none">Junior Project Officer, Rubber Technology Centre, Indian Institute of Technology, Kharagpur. (July 2010- September 2008).Senior Project Assistant, Rubber Technology Centre, Indian Institute of Technology, Kharagpur. (September 2008 - January 2006).Post Graduate Final Year Research Project, University of Calcutta, (June 2004 - August 2003)
Job Experience	Trainee Technologist, Tega Industries Ltd., West Bengal (June 2005- July 2004).

List of Publications from Ph.D. work

1. Elastomer Nanocomposites, M. Maiti, *M. Bhattacharya* and A. K. Bhowmick, **Rubber Chemistry and Technology**, 81, 384 (2008).
2. Influence of Different Nanofillers and Their Dispersion Methods on Properties of Natural Rubber Nanocomposites, *M. Bhattacharya*, M. Maiti and A. K. Bhowmick, **Rubber Chemistry and Technology**, 81, 782 (2008).
3. Polymer-Filler Interaction in Nanocomposites: New Interface Area Function to Investigate Swelling Behavior and Young's Modulus, *M. Bhattacharya* and A. K. Bhowmick, **Polymer**, 49(22), 4808 (2008).
4. Correlation of Vulcanization and Viscoelastic Properties of Nanocomposites based on Natural Rubber and Different Nanofillers, with the Molecular and Supramolecular Structure, *M. Bhattacharya* and A. K. Bhowmick, **Rubber Chemistry and Technology**, 83(1), 16 (2010).
5. Analysis of Wear Characteristics of Natural Rubber Nanocomposites, *M. Bhattacharya* and A.K. Bhowmick, **Wear**, 269,152 (2010).
6. Synergy in Carbon Black filled Natural Rubber Nanocomposites Part I: Mechanical, Dynamic Mechanical Properties and Morphology, *M. Bhattacharya* and A. K. Bhowmick, **Journal of Materials Science**, 45(22),6126-6138 (2010).
7. Synergy in Carbon Black filled Natural Rubber Nanocomposites Part II: Abrasion and Viscoelasticity in Tire like Applications, *M. Bhattacharya* and A. K. Bhowmick, **Journal of Materials Science**, 45(22),6139-6150 (2010).

Papers Presented in Conferences

1. Interface Area Function for Investigation of Swelling Behavior and Young's Modulus of Nanocomposites, **M. Bhattacharya** and A.K. Bhowmick, Oral presentation at Rubber Division ACS 174th Fall Technical Meeting and Rubber Mini Expo™ held during 14th to 16th Oct. 2008, Louisville, Kentucky, USA.
2. Synergistic Effect of Carbon Black and Nanofillers on Properties of Elastomer Nanocomposites, **M. Bhattacharya** and A. K. Bhowmick, Oral presentation at Polymer Processing Society Meeting, PPS -25, March 2009, Goa, India.
3. NR Nanocomposites: Nanofiller Dispersion Techniques and the Synergistic Effect of Carbon Black on Various Properties , **M. Bhattacharya** and A. K. Bhowmick, Oral presentation at Indian Rubber Expo 2009 –International Conference January 2009, Kolkata, India.
4. Effect of different nanofillers in styrene butadiene rubber nanocomposites, **M. Bhattacharya**, M. Maiti and A. K. Bhowmick, Oral presentation at International Conference on Rubber and Rubber like Materials, ICRRM 2008, January 8-10, 2008, IIT Kharagpur, India.

Book Chapter

Morphology – Property Relationship in Rubber Based Nanocomposites: Some Recent Developments. A.K. Bhowmick, **M. Bhattacharya**, S. Mitra, K. Dinesh Kumar, P.K. Maji, A. Choudhury, J. J. George, G.C. Basak; in **Advances in Polymer Science**, Springer, 2010
DOI: 10.1007/12_2010_95.