
Curriculum Vitae

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2002:1st Class; University of Calcutta, Kolkata
B. Sc. (Chemistry Hons.)
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Professional Experience: *Development Chemist* (2002 – 2005),
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Publications in International Journals

- 1) **S. Mitra**, S. Chattopadhyay and A. K. Bhowmick; “Effects of quasi-nanogel particles on the rheological and mechanical properties of natural rubber - a new insight”; *Journal of Applied Polymer Science: 107, 2755-2767 (2008)*.
- 2) **S. Mitra**, S. Chattopadhyay, Y. K. Bharadwaj, S. Sabharwal and A. K. Bhowmick; “Effect of electron beam-cross-linked gels on the rheological properties of raw natural rubber”; *Radiation Physics and Chemistry: 77, 630-642 (2008)*.
- 3) **S. Mitra**, S. Chattopadhyay and A. K. Bhowmick; “Synthesis and characterization of chemically crosslinked styrene-butadiene rubber nano-gels and their effect on various properties of the rubber”; *Rubber Chemistry and Technology: 81, 842-864 (2008)*.
- 4) **S. Mitra**, S. Chattopadhyay and A. K. Bhowmick; “Influence of nanogels on mechanical, dynamic mechanical and thermal properties of elastomers”; *Nanoscale Research Letters: 4, 420-430 (2009)*.
- 5) **S. Mitra**, S. Chattopadhyay, S. Sabharwal and A. K. Bhowmick; “Rheological behavior of gel-filled raw natural rubber and styrene-butadiene rubber with reference to gel-matrix intermixing”; *Polymer Engineering and Science: 49, 1050-1062 (2009)*.
- 6) **S. Mitra**, S. Chattopadhyay, S. Sabharwal and A. K. Bhowmick; “Electron beam crosslinked gels—preparation, characterization and their effect on the mechanical, dynamic mechanical and rheological properties of rubbers”; *Radiation Physics and Chemistry: 79, 289 -296 (2010)*.
- 7) **S. Mitra**, S. Chattopadhyay and A. K. Bhowmick; “Preparation and characterization of elastomer based nanocomposite gels using a unique latex blending technique”; *Journal of Applied Polymer Science: 118, 81-90 (2010)*.
- 8) **S. Mitra**, S. Chattopadhyay and A. K. Bhowmick; “Studies of reinforcement behavior of unique elastomer based nanocomposite gels”; *Polymer Composites: DOI 10.1002/pc.21025 (2010, available on-line)*.
- 9) **S. Mitra**, S. Chattopadhyay and A. K. Bhowmick; “Dynamic stress relaxation behavior of nanogel filled elastomers”; *Journal of Polymer Research: DOI 10.1007/s10965-010-9441-1 (2010, available on-line)*.

Papers Presented in International Conferences

- 1) **S. Mitra**, S. Chattopadhyay, Y. K. Bharadwaj, S. Sabharwal and A. K. Bhowmick; “Effect of Electron Beam Crosslinked Gels on the Rheological Properties of Raw Natural Rubber”; *International Conference on Rubber and Rubber like Materials (ICRRM), Kharagpur, India (8-10 January 2008)*.

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- 2) **S. Mitra**, S. Chattopadhyay, S. Sabharwal and A. K. Bhowmick; “Electron Beam Crosslinked gels – Preparation, Characterization and Their Effect on the Mechanical, Dynamic Mechanical and Rheological Properties of Rubbers”; *8th International Symposium on Ionizing Radiation and Polymers (IRaP), Rio de Janeiro, Brazil (12-17 October 2008)*.
 - 3) **S. Mitra**, S. Chattopadhyay, Y. K. Bharadwaj, S. Sabharwal and A. K. Bhowmick; “Chemically Crosslinked Gels – New Generation Modifiers for Elastomers;”*5th International Conference of India Rubber Expo (IRE-09), Kolkata, India (28-31 January 2009)*.
 - 4) **S. Mitra**, S. Chattopadhyay, and A. K. Bhowmick; “Improvement in Processability of Unfilled Natural Rubber by the Addition of Chemically Crosslinked Quasi-nano Gels”; *25th Annual Meeting of the Polymer Processing Society (PPS-25), Goa, India (1-5 March 2009)*.

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