View Curriculum Vitae

Dr.Jaya Maitra
Assistant Professor
Department of Engineering & Applied Sciences
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Educational qualification:

Class	**University/ Board**	**Year**	**Subjects**	**Percentage of marks(%)**
D.Phil	University of Allahabad	2002	Polymer Chemistry	
M.Sc	University of Allahabad	1998	Physical Chemistry	75.8
B.Sc(Hons)	Banaras Hindu University	1996	Chemistry	72.3

Awards

- Secured top position in Chemistry and was awarded the **Gold medal**
- Was placed second in the entire science faculty and awarded '**Allahabad Jubilee', Silver medal**

Professional Experience

Teaching experience

Name of the organization	**Post Held**	**Time period**
Amity school of Engineering and technology, Delhi	lecturer	Aug2005- April2010

Research experience

Name of Organisation	Post Held	Time period
IIT, Delhi	Project Scientist	2003-2005

Research area

- Modification of polymers by Graft-Copolymerization
- Polymerization of industrially important vinyl monomers'.
- Evaluation of potential membrane applications for water disinfections and alcohol fermentation (Estimation of % alcohol and % fermentation efficiency using GC)
- Thin Film characterization
- Collection & analysis of data related polymers in terms of energy consumption
- Grafting of anti-microbial on to contraceptives.
- Coating of rubber onto jute

Seminar attended

- National Convention on Value Education through Jeevan Vidya ,16 May2007at IIT,Delhi
- Seminar on ODS phase out and ozone friendly technologies on 17 Sept 2007 at Delhi Secretariat,
- I P Estate Delhi-2
- One day seminar on 'Renewable energy resources and its application' on Rajiv Gandhi Akshay Urja Diwas on 20,Aug'08 at Auditorium,Delhi secretariat,I.P.estate Delhi-2

List of Publication

Title: Graft co polymerization of acrylic acid onto Xanthum gum using PMS/ Fe^{2+}redox pair.
Peeyoosh Kant Pandey, Jaya Banerjee,. Kunj Behari
Journal: Journal of Applied Polymer Sciences Volume 89, Issue 5 , Pages 1341 – 1346,2003

Title: "Synthesis and characterization of dextran-g-2-acrylamido-2-methyl-1-propanesulphonic acid using potassium monopersulphate/thiourea redox pair"
A. Srivastava, J. Banerjee, A. Srivastava and K. Behari
Journal Journal Designed Monomers and Polymers Volume 8, Number 4, pp. 335-345(11) 2005

Title: "Studies on graft coplymerization of N-vinyl formamide onto Guar-gum initiated by bromate/ascorbic acid redox pair"
Kunj Behari,Jaya Banerjee,Aarti Srivastava & Dinesh Kumar Mishra
Journal Indian Journal Of Chemical Technology,Vol,12, Nov 2005,pp.

Title: Polymerization of N- vinyl formamide by using an initiator 2,2'-Azobis[2-(2-imidazolin-2-yl) propane] dihydrochloride

Jaya Banerjee, Arti Srivastava and Kunj Behari
Polymer Preprint ACS

Title: Graft Copolymerization of 2–Acrylamido–2–Methyl–1–Propanesulphonic acid onto Carboxymethylcellulose(Sodium Salt) using Bromate/ Thiourea redox pair
Jaya Banerjee, Rajesh Kumar Abhishek Srivastava and Kunj Behari*,
Journal: Journal of Applied Polymer Sciences Volume 100, Issue 1 , Pages 26 – 34**,** 2005

Title:Studies on synthesis and chacterization of xanthan gum –g-N –vinyl formamide using PMS/Ag(I) system.
Jaya Banerjee, , Arti Srivastava, Abhishek Srivastava and Kunj Behari*,
Journal**:** Journal of Applied Polymer Sciences, Volume 101, Issue 3 , Pages 1637 – 1645 **,**2006

Title: Radiation induced graft co-polymerization of vinyl monomers and their binary mixture onto rayon fiber.
Sunita Rattan,Jaya Maitra et.al
Journal: Journal of Applied Polymer Sciences
Volume 108 , Issue 5 , Pages3104 - 3113

Conference Papers:

CHEMCON-05,New Delhi(International Conference)

Title: Anti-microbial properties of silver coated hollow Fiber Membranes
Anurag Sharm,Jaya maitra T..Sreekrishnan,A.k.Ghosh,A.k.Sharma,S.P.conover
Poly2008 (International Conference)

Paper Presented Title of Paper"Synthesis of dextran-g-2-acrylamido-2-methyl-1-propanesulphonic acid using potassium monopersulphate/thiourea redox pair"
Jaya Maitra ,Amity School of Engineering and technology,New Delhi

Research area of interest:

Polymer synthesis Synthesis of Polymers which can be used as

- Super absorbent hydrogels
- Biopolymers.

- Conducting polymers

Polymer grafting

Modification of natural & synthetic polymer by graft co-polymerization.to improve their properties

Membership

Indian Science congress (life member)

Asian Polymer Association(life member)