

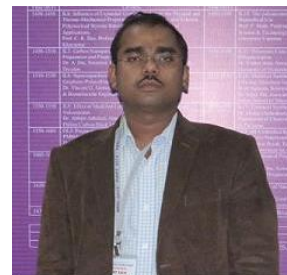
Dr. Arindam Giri

Senior Manager R&D

Black Rose Chemical Divison, Black Rose Industries Ltd.

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Career Objectives: I intend to build my career in the competitive environment of a growing organization, where I would be able to utilize my knowledge and skills effectively and add significant value to the organization and would be appreciated and rewarded for putting forward my efforts.

Work Experience:

Position	From	To	Duration	Organization
Senior Manager R&D	27/11/18	Till date	3 years & 2 months	Black Rose Industries Ltd.
D.S. Kothari Post-Doctoral Fellow	01/03/16	20.11.2018	2 yrs & 8 months	Jadavpur University
Research Associate	01/09/15	29/02/16	5 months	University of Calcutta
Research Scholar	01/09/09	31/08/2015	5yrs 5monts	University of Calcutta

Industrial Exposure:

- **Successfully developed commercial grade N-Methylol Acrylamide.**
- **Successfully developed commercial water soluble adhesive for ceramic industry.**
- **In-hand experience of industrial scale up.**
- **In-hand experience on industrial grade polymer synthesis.**
- **In-hand experience on synthesis and process development of N- Methylol Acrylamide used for textile industry.**

- Working on synthesis of industrial grade synthetic flocculant for waste-water treatment.
- Working on PAM (poly acryl-amide) based speciality chemicals for paper, textile and oil industry.

Research Exposure :

- In-hand experience on synthesis of polyacrylamide based synthetic resin by solution polymerization, emulsion polymerization and radiation induced polymerization techniques.
- In-hand experience on development and synthesis of polymer nanocomposite and their application.
- Experience on polymerization of other synthetic olefins like- acryl amide, acrylic acid, diethylene glycol dimethacrylate, 2-hydroxyethyl methacrylate, lactic acid and so on.
- Working experience on synthesis and characterization of biopolymer based different graft copolymers and their applications in various fields like flocculation, drug delivery, electrochemical device, sensors etc.
- In-hand working experience on synthesis of conducting polymers and their potential applications.

Instrumental Exposure : Gel permeation Chromatography (GPC), High Performance Liquid Chromatography (HPLC), High Resolution Mass Spectrometry (HRMS), Fourier-Transform Infrared Spectroscopy (FTIR), Nuclear Magnetic Resonance Spectroscopy (NMR), Differential Scanning Calorimetry (DSC), Thermo Gravimetric Analysis (TGA), Gel Viscometer, Rheometer, Ultrasonicator, Hydraulic Press, pH meter and Franz diffusion cell.

Computer proficiency: MS Word, MS Office, Power Point, Excel, Origin, Chem Bio-Draw, Skill creast.

Professional Qualification:

Ph.D. (Tech.) in Polymer Science and Technology from University of Calcutta, 31st August 2015

Thesis Entitled “Synthesis, Characterization And *In-vitro* Sustained Drug Release Behavior Studies On Natural Gum Based Organic-Inorganic Hybrid Nanocomposite Hydrogels”.

M. Sc. Projects:

M.Sc. summer project at **BIT** (Mesra) on Development of a new generation of biopolymer based on **Polyacrylamide grafted Carboxymethyl Tamarind (CMT-g-PAM)** from 1st June to 14 July 2007.

Research Publications:

1. **Arindam Giri**, Rahul Bhowmick, Chandraday Podhan, Dipanwita Majumder, Swapan Kumar Bhattacharya and Mahammad Ali. Synthesis and characterization of biopolymer based hybrid hydrogel nanocomposite and study of their electrochemical efficacy, *International Journal of Biological Macromolecules*, 123 (2019) 228-238. **(I.F.-5.162)**
2. Rahul Bhowmick, Abu Saleh Musha Islam, **Arindam Giri**, Atul Katarkar and Mahammad Ali. Rhodamine based Turn-On Chemosensor for Fe³⁺ in Aqueous Medium and Interactions of its Fe³⁺ Complex with HSA, *New Journal of Chemistry*, 41 (2017) 11661-11671. **(I.F.-3.288)**
3. **Arindam Giri**, Tridib Bhunia, Abhijit Pal, Luna Goswami, Abhijit Bandyopadhyay. In-situ synthesis of polyacrylate grafted carboxymethyl guar gum–carbon nanotube membranes for potential application in controlled drug delivery, *European Polymer Journal*, 74 (2016) 13–25. **(I.F.-3.862)**
4. Abhijit Pal, **Arindam Giri**, Abhijit Bandyopadhyay. Influence of hydrodynamic size and zeta potential of a novel polyelectrolyte poly (acrylic acid) grafted guar gum for adsorption of Pb (II) from acidic waste water, *Journal of Environmental Chemical Engineering*, 4 (2016) 1731–1742. **(I.F.-4.30)**
5. **Arindam Giri**, Tridib Bhunia, Luna Goswami, Asit B. Panda, Abhijit Bandyopadhyay. Fabrication of acrylic acid grafted guar gum-multiwalled carbon nanotube hydrophobic membranes for transdermal drug delivery, *RSC Advances*, 5 (2015) 41736-41744. **(I.F.-3.119)**
6. **Arindam Giri**, Tridib Bhunia, Samir R. Mishra, Luna Goswami, Asit B. Panda, Abhijit Bandyopadhyay. A transdermal device from 2-hydroxyethyl methacrylate grafted

- carboxymethyl guar gum–multi-walled carbon nanotube composites, *RSC Advances*, 4 (2014)13546-13556. (I.F.-3.119)
7. Tanbir Nasim, Abhijit Pal, **Arindam Giri**, Luna Goswami, Abhijit Bandyopadhyay. Exploring polyelectrolytic features of the exudate from native *Acacia nilotica* for flocculating aqueous kaolin suspension, *Separation and Purification Technology*, 131 (2014) 50-59. (I.F.- 5.774)
 8. Abhijit Pal, Tanbir Nasim, **Arindam Giri**, Abhijit Bandyopadhyay. Polyelectrolytic aqueous guar gum for adsorptive separation of soluble Pb (II) from contaminated water, *Carbohydrate Polymers*, 110 (2014) 224-230. (I.F.-7.182)
 9. A research highlight“Gum to remove toxic metal from water” published in [Nature India](#), **Doi10.1038/ninindia.2014.83**; **Published online 23th June 2014**.
 10. **Arindam Giri**, Tridib Bhunia, Samir Mishra, Luna Goswami, Asit B. Panda, Sagar Pal, Abhijit Bandyopadhyay. Acrylic acid grafted guar gum–nanosilica membranes for transdermal diclofenac delivery, *Carbohydrate Polymers*, 91 (2013) 492-501.(I.F.-7.182)
 11. A research highlight“Delivering pain killer through skin” published in [Nature India](#), **Doi10.1038/ninindia.2012.160**; **Published online 29th October 2012**.
 12. Tridib Bhunia, **Arindam Giri**, Tanbir Nasim, Dipankar Chattopadhyay, Abhijit Bandyopadhyay. A transdermal diltiazem hydrochloride delivery device using multi-walled carbon nanotube/poly (vinyl alcohol) composites, *Carbon*, 52 (2013) 305-315. (I.F.-8.821)
 13. Tridib Bhunia, **Arindam Giri**, Tanbir Nasim, Dipankar Chattopadhyay, Abhijit Bandyopadhyay. Uniquely different PVA-xanthan gum irradiated membranes as transdermal diltiazem delivery device, *Carbohydrate Polymers*, 95 (2013) 252-261. (I.F.-7.182).
 14. Tridib Bhunia, **Arindam Giri**, Tanbir Nasim, Dipankar Chattopadhyay, Abhijit Bandyopadhyay. Physical, mechanical, and transdermal diltiazem release analysis of nanosilica tailored various poly (vinyl alcohol) membranes, *Journal of Applied Polymer Science*, 130 (2013) 2076-2086. (I.F.-2.188)
 15. **Arindam Giri**, Totan Ghosh, Asit Baran Panda, Sagar Pal, Abhijit Bandyopdhyay. Tailoring carboxymethyl guar gum hydrogel with nanosilica for sustained transdermal release of diclofenac sodium, *Carbohydrate Polymers*, 87 (2012) 1532–1538. (I.F.-7.182)
 16. **Arindam Giri**, Manas Bhowmick, Sagar Pal, Abhijit Bandyopadhyay. Polymer hydrogel from carboxymethyl guar gum and carbon nanotube for sustained trans-dermal release of

diclofenac sodium, *International Journal of Biological Macromolecules*, 49 (2011) 885–893. (I.F.-5.162)

17. Sagar Pal, Mrinal Kanti Gorain, **Arindam Giri**, Abhijit Bandyopadhyay, Asit Baran Panda. In-situ silica incorporated carboxymethyl tamarind: Development and application of a novel hybrid nanocomposite, *International Journal of Biological Macromolecules*, 49 (2011)1152–1159. (I.F.-5.162)

Conference Attended:

Name of the Conference	Activity	During Date	Place
National Conference on Polymer & Rubber Technology for 21st Century (PRC-12)	Poster presentation	12 th & 13 th October, 2012	Kolkata, India
International Conference on Advancements in Polymeric Materials (APM-2012)	Oral presentation	10 th to 12 th February, 2012	Ahemdabad, Gujrat, India.
International Conference on Advances in Polymer Technology (APT-10)	Poster presentation	26 th & 27 th February, 2010	Cochin, Kerala, India
International Conference and Expo on Recent Advances in Polymer & Rubber Science & Technology (RAPT 2014)	Participant	22 nd to 24 th January 2014	CRNN, University of Calcutta, Kolkata.
International Rubber Conferences and Exhibition (IRC-2010)	Participant	17 th to 19 th November, 2010,	Powai, Mumbai, India.
National Conferences On Advances In Materials & Technology (NCRAMT-2011)	Participant	24 th to 26 th June, 2011	Haldia, West Bengal, India
Symposium On Polymer Science (SPS-2011)	Participant	10 th December, 2011	IISER-Kolkata, West Bengal

Academic Qualification:

Degree	Qualification	Board/University	Year	Division
10 th	Madhyamik	W.B.B.S.E	1999	1 st
12 th	H.S.	W.B.C.H.S.E	2001	1 st
Graduation	B.Sc (Hon's)	Vidyasagar University	2005	2 nd
Post Graduation	M.Sc.	Guru Ghasidas University	2008	1 st

Personal Skills:

- Positive Attitude towards work.
- Good problem solving.
- Quick learner and Hardworking.

Personal Details:

Date of Birth : 26.05.1984

Gender : Male

Marital status : Married

Language Known : Bengali, English, Hindi

Permanent Address :

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P.S.- Narayangarh, Dist.- Paschim Medinipur
West Bengal, India, PIN- 721437

Present & corresponding Address:

A-602, Shree Shagun CHS,
Sector-10, Plot-268, Kharghar,
Navi Mumbai, Maharastra - 410210

References:

Prof. Abhijit Bandyopadhyay (Professor) Thesis Supervisor	Prof. Sagar Pal (Professor)	Prof. Mahammad Ali (Vice- Chancellor) Aliah University
Dept. of Polymer Sci. &Tech. University of Calcutta 92- A.P.C. Road Kolkata- 700009	Department of Chemistry IIT (ISM), Dhanbad Jharkhand - 826004, India	New Town Campus II/27, New Town, Kolkata-700160 West Bengal, India
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Declaration:

I hereby declare that all the information stated by me, are authentic to the best of my knowledge and believe.

Date 12.02.22

Place: Navi Mumbai



Arindam Giri