

CURRICULUM VITAE

Dr. Indranil Roy

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Sex	Date of Birth	Nationality	Category	Marital Status
Male	03.07.1987	Indian	General	Married

Academic Qualification (Undergraduate Onwards)

S.No	Degree	Year	Subject	University/Institution	% of marks
1.	Ph.D	2018	Polymer Science and Technology	University of Calcutta	-
Thesis title: Development of Multifunctional Graphene Based Nanocomposites					
2.	M.Tech	2011	Plastics Engg. & Polymer Tech.	Central Institute of Plastics Engineering and Technology	86
Thesis title: Studies on modification and characterization of MMT clay and PLA nano composite					
3.	B.Tech	2009	Chemical Engineering	West Bengal University of Technology	77
Thesis title: Industrial preparation of phthalic anhydride					

Work experience (in chronological order):

S.No.	Positions held	Name of the Institute	From	To
1.	Senior Research Fellow (Project funded by TATA Steel Ltd.)	University of Calcutta	09.03.17	28.03.18
2.	Senior Research Associate (TEQIP)	University of Calcutta	01.10.12	28.02.17
3.	Quality Control & Product Development (In-charge)	Harsh Impex Pvt. Ltd.	01.03.12	31.09.12

Professional Recognition/ Award/ Prize/ Certificate, Fellowship received:

S.No	Name of Award	Awarding Agency	Year
1.	Award for Oral Presentation	National Rubber Conference	2016
2.	Award for Research Promotion scheme	TEQIP	2013

Publications, Patents and Book Chapters:

So far, I have coauthored in 22 International Journal articles, 3 patents and 1 book chapter.

Publications:

S.No.	Author(s)	Title	Name Journal	Volume	Page	Year
1.	Amartya Bhattacharyya, Bhaskar Banerjee, Soumitra Ghorai, Dipak Rana, Indranil Roy , Gunjan Sarkar, Nayan Ranjan Saha, Sriparna De, Tapas Kumar Ghosh, Sourav Sadhukhan, Dipankar Chattopadhyay	Development of an auto-phase separable and reusable graphene oxide-potato starch based cross-linked bio-composite adsorbent for removal of methylene blue dye	International journal of biological macromolecules	116	1037 - 1048	2018
2.	Soumen Sardar, Riya Koley, Uttam Kumar Ghorai, Abhijit Pal, Srijoni Sengupta, Indranil Roy and Abhijit Bandyopadhyay	Photophysical and electrochemical properties/behavior of oligothiophene in 2 non-polymeric and polymeric solvents	Journal of Molecular Structure (Under minor revision)	1168	187 - 194	2018
3.	Nayan Ranjan Saha, Indranil Roy , Gunjan Sarkar, Amartya Bhattacharyya, Rituparna Das, Dipak Rana,	Development of active packaging material based on cellulose acetate butyrate/polyethylene glycol/ aryl ammonium cation modified clay	Carbohydrate polymers	187	8-18	2018

	Rajdeb Banerjee, Amal Kanti Paul, Roshnara Mishra, Dipankar Chattopadhyay					
4.	Gunjan Sarkar, Jonathan T Orasugh, Nayan R Saha, Indranil Roy , Amartya Bhattacharyya, Atis K Chattopadhyay, Dipak Rana, Dipankar Chattopadhyay	Cellulose nanofibrils/chitosan based transdermal drug delivery vehicle for controlled release of ketorolac tromethamine	New Journal of Chemistry	41	15312 - 15319	2017
5.	Amartya Bhattacharyya, Dipankar Mondal, Indranil Roy , Gunjan Sarkar, Nayan Ranjan Saha, Dipak Rana, Tapas Kumar Ghosh, Debabrata Mandal, Mukut Chakraborty, Dipankar Chattopadhyay*	Studies of the kinetics and mechanism of the removal process of proflavine dye through adsorption by graphene oxide	Journal of Molecular Liquids	230	696 - 704	2017
6.	Indranil Roy , Balaram Das, Md. Masud Rahaman Mollick, Arijita Basu, Aditi Dey, Sandeep Kumar Dash, Somenath Roy and Dipankar Chattopadhyay*	Nanotherapy on human acute myeloid leukemia cells using RGO/Ag nanocomposites”	RSC Advances	6	52403 - 52410	2016
7.	Nazia Kausar, Indranil Roy , Dipankar	Synthesis of 2,3- dihydroquinazolinones and quinazolin-4(3H)-one	RSC Advances	6	22320 - 22330	2016

	Chattopadhyay and Asish R Das*	catalyzed by Graphene Oxide nanosheets in aqueous medium: “on-water” synthesis accompanied by carbocatalysis and selective C-C bond cleavage				
8.	Indranil Roy , Gunjan Sarkar, Soumya Mondal, Dipak Rana, Amartya Bhattacharyya, Nayan Ranjan Saha, Arpita Adhikari, Dipak Khastgir, Sanatan Chattopadhyay* and Dipankar Chattopadhyay*	Synthesis and characterization of graphene from waste dry cell battery for electronic applications	RSC Advances	6	10557 - 10564	2016
9.	Gunjan Sarkar, Nayan Ranjan Saha, Indranil Roy , Amartya Bhattacharyya, Arpita Adhikari, Dipak Rana, Manas Bhowmik, Madhura Bose, Roshnara Mishra, Dipankar Chattopadhyay*	Cross-linked methyl cellulose /graphene oxide rate controlling membranes for in vitro and ex vivo permeation studies of diltiazem hydrochloride	RSC Advances	6	36136- 36145	2016
10.	Tapas K Ghosh, Shirshendu Gope, Dipak Rana, Indranil Roy , Gunjan Sarkar, Sourav Sadhukhan, Amartya Bhattacharya, Krishnendu Pramanik, Sanatan Chattopadhyay,	Physical and electrical characterization of reduced graphene oxide synthesized adopting green route	Bulletin of Materials Science	39	543 - 550	2016

	Mukut Chakraborty, Dipankar Chattopadhyay*					
11.	Nayan Ranjan Saha, Gunjan Sarkar, Indranil Roy , Amartya Bhattacharyya, Dipak Rana, Gunaseelan Dhanarajan, Rajdeb Banerjee, Ramkrishna Sen, Roshnara Mishra, Dipankar Chattopadhyay	Nanocomposite films based on cellulose acetate/polyethylene glycol/modified montmorillonite as nontoxic active packaging material	RSC Advances	6	92569 - 92578	2016
12.	Sourav Sadhukhan, Tapas Kumar Ghosh, Dipak Rana, Indranil Roy , Amartya Bhattacharyya, Gunjan Sarkar, Mukut Chakraborty, Dipankar Chattopadhyay*	Studies on synthesis of reduced graphene oxide (RGO) via green route and its electrical property	Materials Research Bulletin	79	41 - 51	2016
13.	Nayan Ranjan Saha, Gunjan Sarkar, Indranil Roy , Dipak Rana, Amartya Bhattacharyya, Arpita Adhikari, Asis Mukhopadhyay, Dipankar Chattopadhyay*	Studies on methylcellulose/pectin/montmorillonite nanocomposite films and their application possibilities	Carbohydrate polymers	136	1218 - 1227	2016
14.	Sutanuka Pattanayak, Sharmila Chakraborty, Md Masud Rahaman Mollick,	In situ fluorescence of lac dye stabilized gold nanoparticles; DNA binding assay and toxicity study	New Journal of Chemistry	40	7121 - 7131	2016

	Indranil Roy, Samita Basu, Dipak Rana, Samiran Sona Gauri, Dipankar Chattopadhyay, Mukut Chakraborty*					
15.	Biplab Bhowmick, Gunjan Sarkar, Dipak Rana, Indranil Roy, Nayan Ranjan Saha, Sushmita Ghosh, Manas Bhowmik, Dipankar Chattopadhyay	Effect of carrageenan and potassium chloride on an in situ gelling ophthalmic drug delivery system based on methylcellulose	RSC Advances	74	60386 - 60391	2015
16.	Kalipada Bankura, Dipak Rana, Md Masud Rahaman Mollick, Sutanuka Pattanayak, Biplab Bhowmick, Nayan Ranjan Saha, Indranil Roy, Tarapada Midya, Gadadhar Barman, Dipankar Chattopadhyay	Dextrin-mediated synthesis of Ag NPs for colorimetric assays of Cu ²⁺ ion and Au NPs for catalytic activity	International Journal of Biological Macromolecules	80	309 - 316	2015
17.	Indranil Roy, Dipak Rana, Gunjan Sarkar, Amartya Bhattacharyya, Nayan Ranjan Saha, Soumya Mondal, Sutanuka Pattanayak, Sanatan	Physical and electrochemical characterization of reduced graphene oxide/silver nanocomposites synthesized by adopting a green approach	RSC Advances	5	25357 - 25364	2015

	Chattopadhyay, Dipankar Chattopadhyay					
18.	Indranil Roy , Amartya Bhattacharyya, Gunjan Sarkar, Nayan Ranjan Saha, Dipak Rana, Partha Pratim Ghosh, Mainak Palit, Asish Ranjan Das and Dipankar Chattopadhyay*	In situ synthesis of a reduced graphene oxide/cuprous oxide nanocomposite: a reusable catalyst	RSC Advances	4	52044 – 52052	2014
19.	Kalipada Bankura, Dipanwita Maity, Md Masud Rahaman Mollick, Dibyendu Mondal, Biplab Bhowmick, Indranil Roy , Tarapada Midya, Joy Sarkar, Dipak Rana, Krishnendu Acharya, Dipankar Chattopadhyay*	Antibacterial activity of Ag–Au alloy NPs and chemical sensor property of Au NPs synthesized by dextran.	Carbohydrat e Polymers	5	151 – 157	2014
20.	Tapas Kumar Ghosh, Shirshendu Gope, Dibyendu Mondal, Biplab Bhowmik, Md Masud Rahaman Mollick, Dipanwita Maity, Indranil Roy , Gunjan Sarkar, Sourav Sadhukhan,	Assessment of morphology and property of grapheneoxide- hydroxypropylmethylcellulose nanocomposite films	Internationa l Journal of Biological Macromolec ules	66	338 – 345	2014

	Dipak Rana, Mukut Chakraborty, Dipankar Chattopadhyay					
21.	Md Masud Rahaman Mollick, Biplab Bhowmick, Dipanwita Maity, Dibyendu Mondal, Indranil Roy , Joy Sarkar, Dipak Rana, Krishnendu Acharya, Sanatan Chattopadhyay, Dipankar Chattopadhyay*.	Green synthesis of silver nanoparticles-based nanofluids and investigation of their antimicrobial activities	Microfluid Nanofluid	16	541 – 551	2014
22.	Gunjan Sarkar, Nayan Ranjan Saha, Indranil Roy , Amartya Bhattacharyya, Madhura Bose, Roshnara Mishra, Dipak Rana, Debashis Bhattacharjee, Dipankar Chattopadhyay	Taro corms mucilage/HPMC based transdermal patch: an efficient device for delivery of diltiazem hydrochloride	Internationa l Journal of Biological Macromolec ules	66	158 – 165	2014

Patents:

- i. Simple and rapid cost-effective approach for synthesis of green fluorescent graphene quantum dots from coal. (Patent Application No: **201831004998**)
- ii. Method of making blue emitting graphene quantum dots from coal. (Patent Application No.: **201931001184**)
- iii. Method of developing blue emitting graphene quantum dots from graphene oxide. (Patent Application no: **201931003535**)

Book chapter:

- i. "Preparation/Synthesis of Carbon Materials" (**Book:** Carbon-Containing Polymer Composites, **Pages:** 1-64, **Publisher:** Springer, Singapore)

Equipment Exposure:

Hand skill experience in

1. UV-Vis Spectrophotometer (UV)
2. FT-IR Spectrophotometer (FTIR)
3. Dynamic Light Scattering for Size and Zeta analysis (DLS)
4. Differential Scanning Calorimeter (DSC)
5. Thermogravimetric Analysis (TGA)
6. X-Ray Diffractometer (XRD)
7. Rotational Viscometers
7. Dynamic Mechanical Analyzer (DMA)
8. MCR Rheometer / Moving Die Rheometer
9. Spectrofluorimeter for fluorescence study
10. Source Measure Unit for I/V study (SMU)
11. Universal Testing Machine (UTM)
12. Extrusion Moulding / Injection Moulding/ Compression Moulding / Two Roll Mill

Name, address & contact nos. of two referees:

Prof. (Dr.) Dipankar Chattopadhyay Professor , Department of Polymer Science and Technology, University of Calcutta, Rajabazar Science College, 92, A.P.C Road, Kolkata-700009. Email: dipankar.chattopadhyay@gmail.com Contact No: +91-9433379034	Dr. Abhijit Bandyopadhyay Associate Professor , Department of Polymer Science and Technology, University of Calcutta, Rajabazar Science College, 92, A.P.C Road, Kolkata-700009. Email: abhijitbandyopadhyay@yahoo.co.in Contact No: +91-9433186957
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I consider myself familiar with Chemical Engineering & also Plastic Engineering Aspects. I am also confident of my ability to work in a team.

I hereby declare that the information furnished above is true to the best of my knowledge.

Date: 12. 08. 2019

Place: Kolkata

Dr. Indranil Roy

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