Dibakar Dhara

Last Update: 31st Dec 2017

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Indian Institute of Technology Kharagpur
West Bengal 721302, India.
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PROFESSIONAL & ACADEMIC CAREER

2014-Present	***Associate Professor***, Department of Chemistry, Indian Institute of Technology, Kharagpur
2008-'14	***Assistant Professor*** , Department of Chemistry, Indian Institute of Technology, Kharagpur
2004-'07	***Lead Scientist***, Polymer Science and Technology Lab, GE Global Research, Bangalore
2001-'04	***Polymer Engineer,*** Polymer and Synthetic Materials Lab, GE Global Research, Bangalore
1999-'01	***Postdoctoral Associate***, Department of Chemical Engineering, University of Florida, Gainesville
1995-'99	***Ph.D. in Chemistry***, Indian Institute of Chemical Technology, Hyderabad
1990-'95	***B.Sc. (Hons.) and M. Sc. in Chemistry***, Jadavpur University, Kolkata

CURRENT AREAS OF RESEARCH

Physical Chemistry of Macromolecules, Synthetic Polymer Chemistry, Colloids and Nanomaterials.

RESEARCH GUIDANCE (All at IIT Kharagpur)

Ph. D.: Completed – 05; On-going: 07
M. Sc.: Completed – 16

SPONSORED RESEARCH (All at IIT Kharagpur)

As *Principal Investigator*: Completed – 04, total project value - Rs. 303 Lakh.
As *Co-Principal Investigator*: Completed – 01, total project value - Rs. 43 Lakh.

TEACHING: (All at IIT Kharagpur)

At *undergraduate level*: Physical Chemistry, Colloids and Macromolecules, Polymer Chemistry, Colloids and Surfaces, Introductory and Advanced Physical Chemistry Laboratory, Polymer Chemistry Laboratory.

At *postgraduate level*: Advanced Polymer Chemistry, Colloids and Surfaces.

ADMINISTRATIVE / STUDENT ACTIVITIES:

- NSS Program Officer (2011-2017)

ACHIEVEMENTS / AWARDS

- Invented, qualified, and commercialized GE Plastics' first blood-compatible polycarbonate material (2006) and was awarded with "Excellent award" from GE Plastics'. (2006)
- Invented a new polycarbonate copolymer composition from a bio-sourced aliphatic monomer, developed a process to improve molecular weight that led to development of several blend compositions (2004-'07).
- ACS 3-year membership award. (2015-2018)
- Six-sigma Green Belt certificate. (2002)
- Four 'Management awards' from GE Research for outstanding research and development work (2002-07).
- Ranked 102 in Higher Secondary Examination conducted by West Bengal Council for Higher Secondary Education (1990); Selected for 'National Merit Scholarship', Government of India (1990); Ranked 2nd M. Sc. in Chemistry, Jadavpur University, Kolkata (1995).

PROFESSIONAL ACTIVITY

- Member, American Chemical Society
- Life Member: Society of Polymer Science India, Materials Research Society of India
- Video course for National Program on Technology Enhanced Learning (NPTEL) on Polymer Chemistry
- Ph. D. thesis examiner of several universities, reviewer of project proposal of various funding agencies including SERB, DST
- **Presented papers (both Invited and Oral) in several international conferences in India and abroad.**
- **Reviewed paper(s) for the following journals:**

ACS

1. ACS Applied Materials and Interfaces
2. ACS Applied Nanomaterials
3. ACS Biomaterials Science & Engineering
4. ACS Nano
5. ACS Macro Letters
6. ACS Omega
7. Biomacromolecules
8. Industrial & Engineering Chemistry Research
9. Langmuir
10. Macromolecules
11. The Journal of Physical Chemistry B

RSC

12. Chemical Communications
13. Physical Chemistry Chemical Physics
14. Polymer Chemistry
15. RSC Advances
16. Soft Mater

WILEY

17. Journal of Applied Polymer Science
18. Journal of Pharmacy and Pharmacology
19. Journal of Polymer Sci. Part A: Polym. Chem.
20. Journal of Polymer Sci. Part A: Polym. Phys.
21. Polymer Engineering and Sciences
22. Polymer International
23. Polymers for Advanced Technologies

SPRINGER

24. Applied Nanoscience
25. International Journal of Industrial Chemistry
26. Journal of Chemical Sciences
27. Journal of Materials Science
28. Nanoscale Research Letters

ELSEVIER

29. Acta Biomaterialia
30. Applied Surface Science
31. Chemical Engineering Journal
32. Colloids and Surfaces A
33. Colloids and Surfaces B
34. European Polymer Journal
35. International Journal of Pharmaceutics
36. Journal of Colloid and Interface Science
37. Journal of Environmental Management
38. Journal of Industrial and Engineering Chemistry
39. Journal of Luminescence
40. Journal of Molecular Catalysis B: Enzymatic
41. Journal of Molecular Liquids
42. Journal of Photochemistry and Photobiology B: Biology
43. Materials Research Bulletin
44. Materials Science and Engineering: C
45. Polymer
46. Process Biochemistry
47. Reactive and Functional Polymers

TAYLOR & FRANCIS

48. Artificial Cells, Blood Substitutes, and Biotechnology
49. Drug Development and Industrial Pharmacy
50. Expert Opinion on Drug Delivery
51. International Journal of Polymeric Materials
52. Journal of Biomaterials Science: Polymer Edition
53. Journal of Microencapsulation

OTHERS

54. Indian J Chemistry, Sec A
55. International Journal of Nanomedicine.
56. Journal of Drug Delivery Science and Technology
57. Journal of Nanoparticle Research
58. Journal of Reinforced Plastics and Composites

LIST OF PATENTS / PATENT APPLICATIONS

[USPTO: United States Patent and Trademark Office; EP: European Patent; PCT: Patent Cooperation Treaty]

Patent Title	Patent No.	Grant / Pub Date	Agency/ Country	Status
Polycarbonate Composition Comprising Nanomaterials	US8865833	Oct-14	*USPTO*	Granted to Sabic Global Technologies
Transparent Polycarbonate-Polysiloxane Copolymer Blend, Method for the Preparation Thereof, and Article Derived Therefrom	EP1685195	Apr-14	*EP*	Granted to Sabic Global Technologies
Fluorescent Organic Photoresponsive Nanocarriers for both Tracking and Regulated Release of Pesticide	867/Kol/2013	2013	*Indian Pat.*	Applied by IIT Kharagpur
Water Resistant Permanent Antistatic Thermoplastic Composition	EP1702001	Nov-13	*EP*	Granted to Sabic Global Technologies
Polysiloxane-Polycarbonate Compositions, Method of Manufacture, and Articles Formed Therefrom	US8389648	Mar-13	*USPTO*	Granted to Sabic Global Technologies
Aliphatic Diol-Based Polycarbonates, Method of Making, and Articles Formed Therefrom	EP2201057	Dec-12	*EP*	Granted to Sabic Global Technologies
Polysiloxane-Polycarbonate Compositions, and Related Methods and Articles	US7994254	Aug-11	*USPTO*	Granted to Sabic Global Technologies
Polysiloxane-Polycarbonate Compositions, Method of Manufacture, and Articles Formed Therefrom	EP2294139	Mar-11	*EP*	Granted to Sabic Global Technologies
Polycarbonate-Polysiloxane Copolymers, Methods for the Preparation Thereof, and Articles Derived Therefrom	US7888447	Feb-11	*USPTO*	Granted to Sabic Global Technologies
Aliphatic Diol-Based Polycarbonates, Method of Making, and Articles Formed Therefrom	US7807772	Oct-10	*USPTO*	Granted to Sabic Global Technologies
Aliphatic Diol-Based Polycarbonates, Method of Making, and Articles Formed Therefrom	US7718755	May-10	*USPTO*	Granted to Sabic Global Technologies
Polycarbonates with Fluoroalkylene Carbonate End Groups	US7687557	Mar-10	*USPTO*	Granted to Sabic Global Technologies
Polycarbonate-Poly(Alkylene Oxide) Copolymer Compositions and Articles Formed Therefrom	EP2155802	Feb-10	*EP*	Granted to Sabic Global Technologies

Aliphatic Diol Polycarbonates and Their Preparation	EP1740637	Feb-10	*EP*	Granted to Sabic Global Technologies
Polycarbonate-Poly(Alkylene Oxide) Copolymer Compositions and Articles Formed Therefrom	US7649073	Jan-10	*USPTO*	Granted to Sabic Global Technologies
Polycarbonate-Poly(Alkylene Oxide) Copolymer Compositions and Articles Formed Therefrom	US7642315	Jan-10	*USPTO*	Granted to Sabic Global Technologies
Methods of Sterilizing Polycarbonate Articles And Methods Of Manufacture	US7638091	Dec-09	*USPTO*	Granted to Sabic Global Technologies
Aliphatic Diol-Based Polycarbonates, Method of Making, And Articles Formed Therefrom	WO09050682	Apr-09	*PCT*	Applied by Sabic Global Technologies
Copolycarbonate Compositions	WO09042755	Apr-09	*PCT*	Applied by Sabic Global Technologies
Copolycarbonate Compositions	US20090088509	Apr-09	*USPTO*	Applied by Sabic Global Technologies
Methods of Sterilizing Polycarbonate Articles	EP1776145	Mar-09	*EP*	Granted to Sabic Global Technologies
Polycarbonate-Poly(Alkylene Oxide) Copolymer Compositions and Articles Formed Therefrom	WO08157328	Dec-08	*PCT*	Applied by Sabic Global Technologies
Polycarbonate-Polysiloxane Copolymers, Methods for the Preparation Thereof, and Articles Derived Therefrom	WO08121151	Oct-08	*PCT*	Applied by Sabic Global Technologies
Polycarbonate Composition Comprising Nanomaterials	WO08091413	Jul-08	*PCT*	Applied by Sabic Global Technologies
Polycarbonate Composition Comprising Nanomaterials	US20080167414	Jul-08	*USPTO*	Applied by General Electric Company
Radiation Stable Aromatic Carbonate Polymer Compositions	US7374718	May-08	*USPTO*	Granted to General Electric Company
Electrically Conductive Compositions and Method of Manufacture Thereof	US7354988	Apr-08	*USPTO*	Granted to General Electric Company
Method of Making Polycarbonate Nanocomposites	US20080081865	Apr-08	*USPTO*	Applied by General Electric Company
Polycarbonates with Fluoroalkylene Carbonate End Groups	EP1836235	Sep-07	*EP*	Granted to Sabic Global Technologies

Water Resistant Permanent Antistatic Thermoplastic Composition	US7220792	May-07	*USPTO*	Granted to General Electric Company
Radiation Stable Aromatic Carbonate Polymer Compositions	WO07044311	Apr-07	*PCT*	Applied by General Electric Company
Aliphatic Diol Polycarbonates and Their Preparation	US7138479	Nov-06	*USPTO*	Granted to General Electric Company
Transparent Polycarbonate-Polysiloxane Copolymer Blend, Method for the Preparation Thereof, and Article Derived Therefrom	US7135538	Nov-06	*USPTO*	Granted to General Electric Company
Thermoplastic Composition Containing Polymeric Anti-Static Salt, Method of Making, And Use Thereof	EP1701997	Sep-06	*EP*	Granted to General Electric Company
Thermoplastic Composition Containing Polymeric Anti-Static Salt, Method of Making, And Use Thereof	US7094861	Aug-06	*USPTO*	Granted to General Electric Company
Polycarbonates with Fluoroalkylene Carbonate End Groups	WO06068818	Jun-06	*PCT*	Applied by General Electric Company
Electrically Conductive Compositions and Method of Manufacture Thereof	US7026432	Apr-06	*USPTO*	Granted to General Electric Company
Water Resistant Permanent Antistatic Thermoplastic Composition	WO05066259	Jul-05	*PCT*	Applied by General Electric Company
Aliphatic Diol Polycarbonates and Their Preparation	WO05066239	Jul-05	*PCT*	Applied by General Electric Company
Thermoplastic Composition Containing Polymeric Anti-Static Salt, Method of Making, and Use Thereof	WO05066253	Jul-05	*PCT*	Applied by General Electric Company
Transparent Polycarbonate-Polysiloxane Copolymer Blend, Method for The Preparation Thereof, and Article Derived Therefrom	WO05052059	Jun-05	*PCT*	Applied by General Electric Company
Dimensionally Stable Polycarbonate Articles	WO04006236	Jan-04	*PCT*	Applied by General Electric Company
Dimensionally Stable Polycarbonate Articles	US6552158	Apr-03	*USPTO*	Granted to General Electric Company

LIST OF PEER-REVIEWD JOURNAL PUBLICATIONS (Listed chronologically, most recent first)

From Indian Institute of Technology, Kharagpur

53 S. Sahoo, S. Bera, S. Maiti, and D. Dhara* "Temperature- and Composition-Dependent DNA Condensation by Thermosensitive Block Copolymers", *ACS Omega* **2017**, *2*, 7946-795

52 C. Maiti and D. Dhara* "Energy-Transfer Phenomena in Thermoresponsive and pH Switchable Fluorescent Diblock Copolymer Vesicles", *Langmuir* **2017**, *33*, 12130-12139

51 G. Biswas, B. C. Jena, S. Maiti, P. Samanta, M. Mandal and D. Dhara* "Photoresponsive Block Copolymer Prodrug Nanoparticles as Delivery Vehicle for Single and Dual Anticancer Drugs", *ACS Omega* **2017**, *2*, 6677-6690

50 A. Pyne, J. Kuchlyan, C. Maiti, and D. Dhara* and N. Sarkar* "Cholesterol Based Surface Active Ionic Liquid That Can Form Microemulsions and Spontaneous Vesicles", *Langmuir* **2017**, *33*, 5891–5899

49 S. Parida, C. Maiti, Y Rajesh, K. K Dey, I. Pal, A. Parekh, R Patra, D. Dhara, P. K. Dutta and M. Mandal*, "Gold Nanorod Embedded Reduction Responsive Block Copolymer Micelle-Triggered Drug Delivery Combined with Photothermal Ablation for Targeted Cancer Therapy", *Biochimica et Biophysica Acta – General Subjects* **2017**, *1861*, 3039-3052

48 C. Maiti, R. Banerjee, S. Maiti and D. Dhara* "Water-Soluble Polymeric Chemosensor for Detection of Cu^{2+} Ions with High Selectivity and Sensitivity", *Designed Monomers and Polymers* **2016**, *19*, 669–678

47 B. Sahoo, S. Dutta and D. Dhara* "Amine Functionalized Magnetic Nanoparticles as Robust Support for Immobilization of Lipase", *Journal of Chemical Sciences* **2016**, *128*, 1131–1140

46 D. Dey, C. Maiti, S. Sahoo and D. Dhara*, "Comparative Study of Calf-Thymus DNA Complexation by Low Deneration PAMAM Dendrimers and Linear Cationic PEGylated Block Ccopolymers by Time-Resolved Fluorescence Spectroscopy", *Journal of Molecular Liquids* **2016**, *221*, 547–556

45 S. Dutta, G. Biswas and D. Dhara*, "Nanocomposite Hydrogels for Selective Removal of Cationic Dyes from Aqueous Solutions", *Polymer Engineering and Sciences* **2016**, *56*, 776-785

44 S. Dutta, S. Parida, C. Maiti, R. Banerjee, M. Mandal and D. Dhara* "Polymer Grafted Magnetic Nanoparticles for Delivery of Anticancer Drug at Lower pH and Elevated Temperature", *Journal of Colloids and Interface Sciences* **2016**, *467*, 70–80

43 S. Dutta, P. Samanta and D. Dhara* "Temperature, pH and Redox Responsive Cellulose Based Hydrogels for Protein Delivery", *International Journal of Biological Macromolecules* **2016**, *87*, 92-100

42 R. Banerjee, S. Maiti, D. Dey and D. Dhara* "Polymeric Nanostructures with pH-Labile Core for Controlled Drug Release", *Journal of Colloids and Interface Sciences* **2016**, *462*, 176–182

41 S. Atta, A. Paul, R. Banerjee, M. Bera, M. Ikbal, D. Dhara* and N. D. P. Singh* "Photoresponsive Polymers based on Coumarin Moiety for the Controlled Release of Pesticide 2,4-D", *RSC Advances* **2015**, *5*, 99968–99975

40 D. Dey and D. Dhara* "Interaction between Linear PEGylated Cationic Block Copolymers and Human Serum Albumin", *Journal of Molecular Liquids* **2015**, *212*, 841–849

39 R. Banerjee, S. Parida, C. Maiti, M. Mandal and D. Dhara* "pH-Degradable and Thermoresponsive Water-Soluble Core Cross-Linked Polymeric Nanoparticles as Potential Drug Delivery Vehicle for Doxorubicin", *RSC Advances* **2015**, *5*, 83565–83575.

38 S. Dutta and D. Dhara* "Effect of Preparation Temperature on Salt-Induced Deswelling and Pattern Formation in Poly(N-Isopropylacrylamide) Hydrogels", *Polymer* **2015**, *76*, 62–69

37 S. Dutta and D. Dhara* "Improved Swelling/Deswelling Behavior of Poly(N-Isopropylacrylamide) Gels with Poly(N,N'-Dimethylaminoethyl Methacrylate) Grafts", *Journal of Applied Polymer Science* **2015,** *122* (44), 42749 (art no.)

36 R. Banerjee, C. Maiti, S. Dutta and D. Dhara* "Size- and Distance-Dependent Excitation Energy Transfer in Fluorophore Conjugated Block Copolymer - Gold Nanoparticle Systems", *Polymer* **2015**, *59*, 243–251

35 C. Maiti, R. Banerjee, S. Maiti and D. Dhara* "pH-Induced Vesicle-to-Micelle Transition in Amphiphilic Diblock Copolymer: Investigation by Energy Transfer between in Situ Formed Polymer Embedded Gold Nanoparticles and Fluorescent Dye", *Langmuir* **2015**, *31*, 32−41

34 D. Dey, C. Maiti, S. Maiti and D. Dhara* "Interaction between Calf Thymus DNA and Cationic Bottle-Brush Copolymers: Equilibrium and Stopped-Flow Kinetic Studies", *Physical Chemistry Chemical Physics* **2015**, *17*, 2366–2377

33 C. Banerjee, S. Maiti, M. Mustafi, J. Kuchlyan, D. Banik, N. Kundu, D. Dhara,* N. Sarkar* "Effect of Encapsulation of Curcumin in Polymeric Nanoparticles: How Efficient to Control ESIPT Process?", *Langmuir* **2014**, *30*, 10834–10844

32 B. Sahoo, K. S. P. Devi , S. Dutta, T. K. Maiti, P. Pramanik*, D. Dhara* "Biocompatible Mesoporous Silica-Coated Superparamagnetic $MnFe_2O_4$ Nanoparticles for Targeted Drug Delivery and MR Imaging Applications", *Journal of Colloids and Interface Sciences* **2014***, 431*, 31–41

31 D. Dey, S. Kumar, R. Banerjee, S. Maiti, and D. Dhara*, "Polyplex Formation Between PEGylated Linear Cationic Block Copolymers and DNA: Equilibrium and Kinetic Studies", *The Journal of Physical Chemistry B* **2014***, 118*, 7012–7025

30 M. Ikbal, R. Banerjee, S. Barman, S. Atta, D. Dhara* and N. D. P. Singh* "1-Acetylferroceneoxime-based Photoacid Generators: Application Towards Sol–Gel Transformation and Development of Photoresponsive Polymer for Controlled Wettability and Patterned Surfaces", *Journal of Materials Chemistry C* **2014**, *2*, 4622–4630

29 R. Banerjee, D. S. Pal and D. Dhara* "Synthesis of a New Rhodamine-Containing Block Copolymer for Highly Selective and Sensitive Detection of Cu^{2+} and CN^- Ions in Aqueous Media", *Polymer International* **2014**, 2014, *63*, 1974–1981

28 R. Banerjee and D. Dhara* "Functional Group-Dependent Self-Assembled Nanostructures from Thermo-Responsive Triblock Copolymers", *Langmuir* **2014**, *30*, 4137−4146

27 C. Maiti, D. Dey, S. Mandal, and D. Dhara* "Thermoregulated Formation and Disintegration of Cationic Block Copolymer Vesicles: Fluorescence Resonance Energy Transfer Study", *The Journal of Physical Chemistry B* **2014***,* 118, 2274−2283

26 R. Banerjee, S. Maiti, D. Dhara* "Synthesis of Polystyrene Core Cross-linked Star Polymers by 1,3-Dipolar Cycloaddition via the Formation of Isoxazoline", *Green Chemistry* **2014***, 16,* 1365–1373

25 S. Dutta, D. Dey, D. Dhara* " Poly(ethylene glycol)-Containing Cationic Hydrogels with Lipophilic Character", *Journal of Applied Polymer Science* **2014**, *131*(3), 39873 (art no.)

24 R. Banerjee, S. Gupta, D. Dey, S. Maiti, D. Dhara* "Interactions of HSA with Cationic Homopolymer and PEG Containing Cationic Block Copolymers", *Reactive and Functional Polymers* **2014**, *74*, 81–89

23 D.Dey, S. Kumar, S. Maiti, and D. Dhara*, "Stopped-Flow Kinetic Studies of Poly(amidoamine) Dendrimer−Calf Thymus DNA To Form Dendriplexes", *The Journal of Physical Chemistry B* **2013***,* 117, 13767−13774

22 B. Sahoo, K. S. P. Devi , R. Banerjee, T. K. Maiti, P. Pramanik, D. Dhara* "Thermal and pH Responsive Polymer-Tethered Multifunctional Magnetic Nanoparticles for Targeted Delivery of Anti-cancer Drug", *ACS Applied Materials and Interfaces* **2013***,* 5, 3884–3893

21 R. Banerjee, S. Dutta, S. Pal, D. Dhara* "Spontaneous Formation of Vesicles from PEG Based Cationic Block Copolymers and AOT and Their Applications in Stabilizing Gold Nanoparticles", *The Journal of Physical Chemistry B* **2013**, 117, 3624–3633

20 B. Sahoo, K. S. P. Devi , S. K. Sahu, S. Nayek, T. K. Maiti, D. Dhara*, P. Pramanik* "Facile Preparation of Multifunctional Hollow Silica Nanoparticles and their Cancer Specific Targeting Effect", *Biomaterials Science* **2013**, *1,* 647–657

19 B. Sahoo, S. K. Sahu, D. Bhattacharya, D. Dhara*, P. Pramanik* "A Novel Approach for Efficient Immobilization and Stabilization of Papain on Magnetic Gold Nanocomposites", *Colloids and Surfaces B: Biointerfaces,* **2013**, 101, 280–289

18 M. Ikbal, R. Banerjee, S. Atta, D. Dhara,* A. Anoop* and N. D. P. Singh* "Synthesis, Photophysical and Photochemical Properties of Photoacid Generators Based on N-Hydroxy Anthracene-1,9-Dicarboxyimide and their Application Towards Modification of Silicon Surface" *The Journal of Organic Chemistry* **2012**, 77, 10557−10567

17 M. Ikbal, R. Banerjee, S. Atta, A. Jana, D. Dhara*, A. Anoop*, N. D. P. Singh*, "Development of 1-Hydroxy-2(1H)-quinolone-Based Photoacid Generators and Photoresponsive Polymer Surfaces" *Chemistry: A European Journal* **2012**, 18, 11968–11975.

16 B. Sahoo, S. K. Sahu, S. Nayak, D. Dhara, P. Pramanik* "Fabrication of Magnetic Mesoporous Manganese Ferrite Nanocomposites as Efficient Catalyst for Degradation of Dye Pollutants" *Catalysis Science & Technology*, **2012**, 2, 1367–1374

15 R. Banerjee, S. Maiti, D. Dhara*"Water-Soluble Nanoparticles from Poly(Ethylene Glycol)-Based Cationic Random Copolymers and Double-Tail Surfactant" *Colloids and Surfaces A: Physicochemical and Engineering Aspects* **2012**, 395, 255–261

14 M. Ikbal, A. Jana, N.D.P. Singh*, R. Banerjee, D. Dhara* "Photoacid Generators (PAGs) Based on N-Acyl-N-Phenylhydroxylamines for Carboxylic and Sulfonic Acids" *Tetrahedron* **2011**, 67, 3733–3742

From Previous Job at General Electric Company, Bangalore

13 D. Dhara*, A. Purushotham, N. Rosenquist, W. D. Richards, K. Maruvada, G. Chatterjee "Physical Aging of Polycarbonate Block Copolymer: Ductility Rejuvenation Below the Glass Transition Temperature" *Polymer Engineering and Science,* **2009**, 49, 1719–1726

12 K. Maruvada, N. Rosenquist, D. Dhara, A. Purushotham "Polycarbonate Copolymers with Improved Heat and Hydrolytic Resistance" *ANTEC* **2007**, 3, 1848–1852

From Postdoctoral work at University of Florida, Gainesville, Florida

11 D. Dhara and D. O. Shah*, "Effect of Poly(ethylene glycols) on Micellar Stability of Sodium Dodecyl Sulfate", *Langmuir* **2001**, 17(23), 7233–7236

10 D. Dhara and D. O. Shah*, "Stability of Sodium Dodecyl Sulfate Micelles in Presence of a Range of Polymers: A Pressure Jump Study", *The Journal of Physical Chemistry B* **2001**, 105, 7133–7138

From Ph. D. work at Indian Institute of Chemical Technology, Hyderabad

9 D. Dhara, C.K. Nisha, and P. R. Chatterji*, "Volume Phase Transition in Cationic and Anionic IPN based on Poly(N-isopropylacrylamide)", *Macromolecular Chemistry and Physics* **2001**, 202, 3617–3623

8 D. Dhara and P. R. Chatterji*, "Swelling and Deswelling Pathways in Non-Ionic Poly(N-Isopropylacrylamide) Hydrogels in Presence of Additives," *Polymer* **2000**, 41, 6133–6143

7 D. Dhara, G.V. N. Rathna, and P. R. Chatterji*, "Volume Phase Transition in Interpenetrating Networks of Poly(N-Isopropylacrylamide) with Gelatin", *Langmuir* **2000**, 16, 2424–2429

6 D. Dhara and P. R. Chatterji*, "Phase Transition in Linear and Cross-linked Poly(N-Isopropylacrylamide) in Water: Effect of Additives**",** *Polymer Reviews* **2000**, 40, 51–68

5 C.K. Nisha, D. Dhara and P. R. Chatterji*, "Superabsorbency and volume phase transition in crosslinked poly[[3-(methacryloylamino)propyl]-trimethylammonium chloride] hydrogels", *Journal Macromolecular*

4 D. Dhara and P. R. Chatterji*, "Electrophoretic Transport of Poly(Ethylene Glycol) Chains through Poly(acrylamide) Gel", *The Journal of Physical Chemistry B* **1999**, 103, 8458–8461

3 D. Dhara, C.K. Nisha, and P. R. Chatterji*, "Superabsorbent Hydrogels: Interpenetrating Polymer Networks of Poly(Acrylamide- Co- Acrylic Acid) and Poly(Vinyl Alcohol): Swelling Behavior and Structural Parameters", *Journal Macromolecular Science Pure and Applied Chemistry* **1999**, A36, 197–210

2 D. Dhara and P. R. Chatterji *, "Effect of Hydrotropes on Volume Phase Transition of Poly(N-Isopropylacrylamide) Hydrogels", *Langmuir* **1999**, 15, 930–935

1 D. Dhara and P. R. Chatterji*, Biodegradable, Stimuli Sensitive Hydrogels from Interpenetrating Polymer Network of Gelatin and Poly (n-isopropyl acrylamide), *Trends in Biomaterials and Artificial Organs* **1999**, 13, 8–11.

BOOK / BOOK CHAPTER

1 K. C. Glasgow, D. Dhara *"*An Overview of the Biocompatibility of Polymeric Surfaces" in *Polymers for Biomedical Applications,* Edited by A. Mahapatro, *ACS Symposium Series* 977, American Chemical Society: Washington, DC, **2008,** Chapter 16, page 268–282

PERSONAL: 45 years, Married, Male