

Name: Dr.Gitanjali Majumdar
Present Affiliation: Assistant Professor

Postal Address: C/o Sri. Biswa Narayan Majumdar,
Near “Khyati Bhawan”, R.K.Choudhury Road
Bharalumukh, Guwahati-781009. Assam



EDUCATION:

2002-2007 Ph.D Indian Institute of Technology, Guwahati,
Thesis Title: “Multifunctional nanomaterials on Various Surfaces”

1998-2000 MSc (Chemistry) Spl (Physical Chemistry), Gauhati University, Assam

1995-1998 BSc (Chemistry), Gauhati University, Assam

Awards and Fellowship

- a) Junior Research Fellowship, Under CSIR-UGC Scheme, 2001
- b) GATE 2002
- c) 2nd in B.Sc. (Chemistry), 1997
- d) 2nd in M.Sc. (Chemistry), 1999

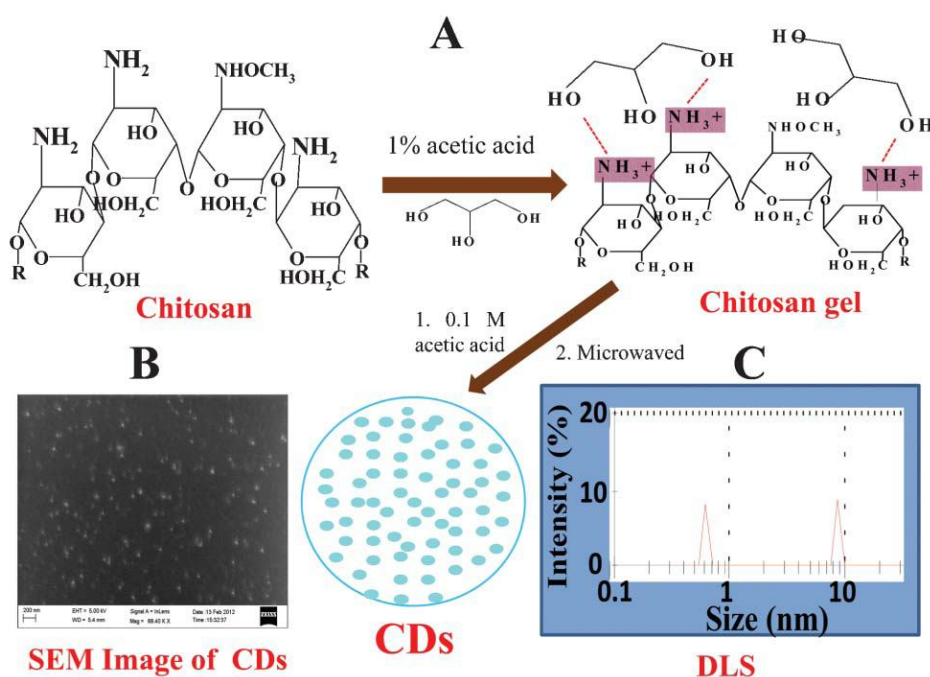
Research Experience:

1. 2000-2002 JRF in the department of Chemistry working under Under project “*Synthesis of Zeolites(MCM-41) and uses for various reactions*”
2. 2002-2007: Research Scholar in Department of Chemistry, Indian Institute of Technology, Guwahati

Research area: Nanomaterials/Lithography

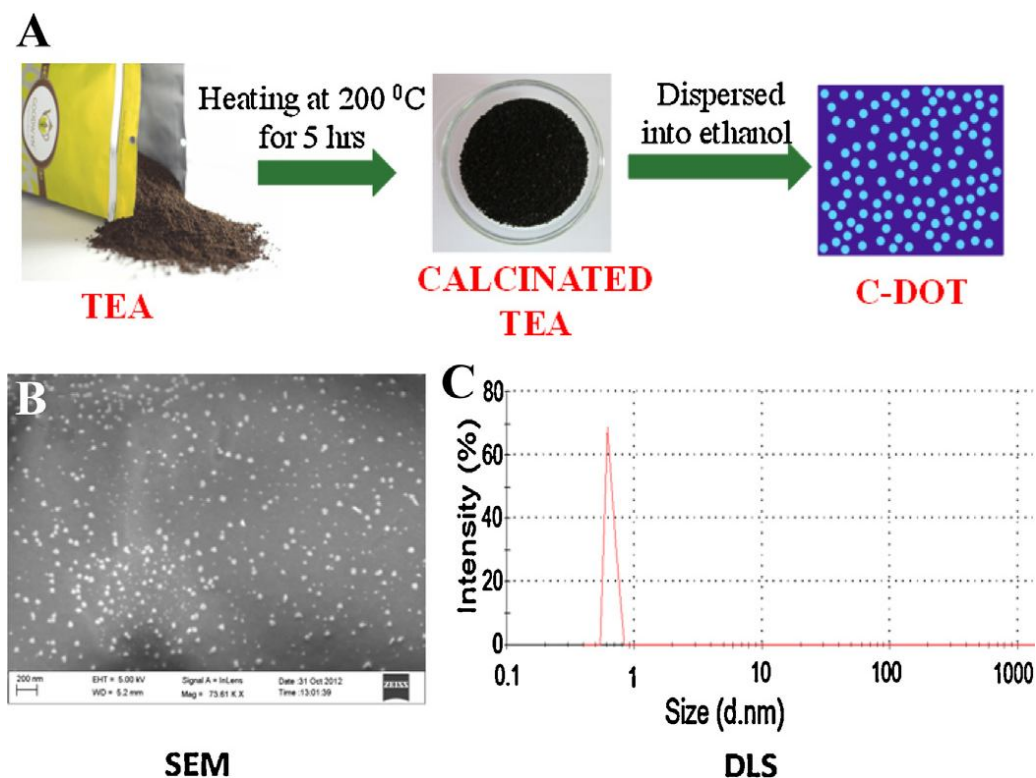
Present research Activities:

Synthesis and applications of “Quantum dots”, especially carbon dots

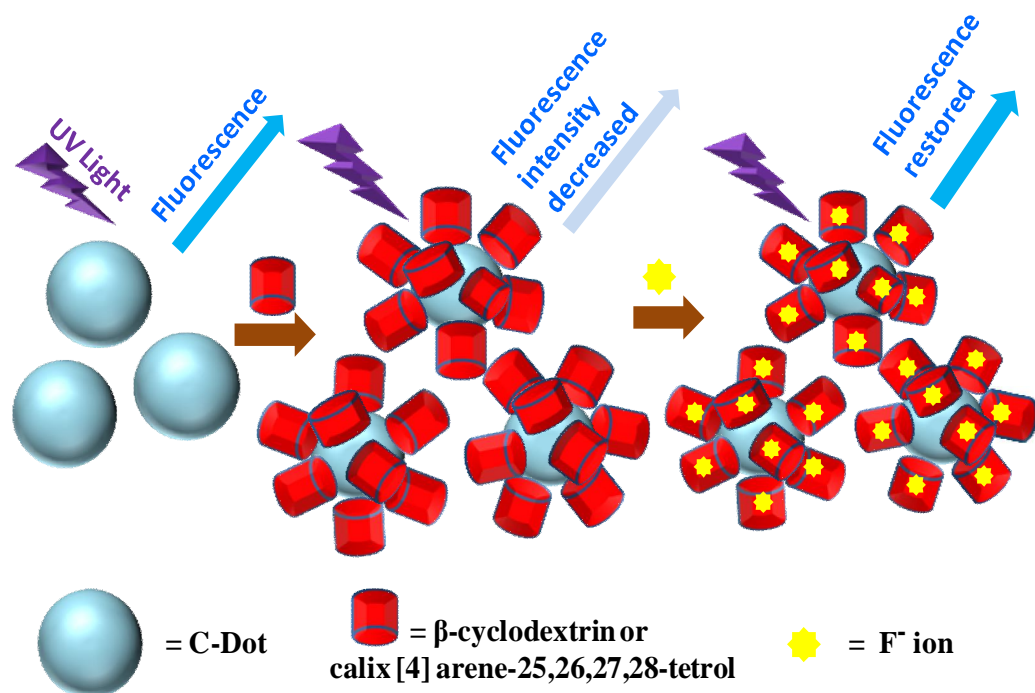


RSC Adv., 2012, 2, 12156–12159, This journal is The Royal Society of Chemistry 2012

Study of polymer nanocomposites



Sensing of chemical and biochemical molecules



Project Undertaken

- All India Council For Technical Education(AICTE), New Delhi project No. 8023/RID/RPS-3/(NER)2011-12.
- Department of Science and Technology(DST), Government of India project No. SR/S1/PC/0058/ 2010.

Publications

- β -cyclodextrin and calix[4]arene-25,26,27,28-tetrol capped Carbon Dots for selective and sensitive detection of fluoride.** Upama Baruah, Neelam Gogoi, **Gitanjali Majumdar** and Devasish Chowdhury, *Carbohydrate Polymers*, 2014 10.1016/j.carbpol.2014.09.083.

2. **Green Chitosan-Carbon dots nanocomposite Hydrogel Film with superior properties.** Achyut Konwar, Neelam Gogoi, Gitanjali Majumdar and Devasish Chowdhury, *Carbohydrate Polymers*, 2015, 115, 238-245.
3. **Capped Fluorescent Carbon Dots for detection of Hemin: Role of number of – OH groups of capping agent in fluorescence quenching** Upama Baruah, Neelam Gogoi, **Gitanjali Majumdar** and Devasish Chowdhury, *The Scientific World Journal* **2013**, 2013, 529159
4. **Optical Properties of Surface Passivated CdS Nanocrystals Bifunctionally Anchored to Ag Nanoparticles** Lakshinandan Goswami, **Gitanjali Majumdar**, and Devasish Chowdhury. *Mater. Focus* **2013**, 2, 378-385.
5. **Fluorescent carbon dots obtained from chitosan gel** Devasish Chowdhury, Neelam Gogoi and **Gitanjali Majumdar** *RSC Advances*, **2012**, 2, 12156–12159. (I.F. 2.562)
6. **Lithography for Imprinting Colored Patterns with Quantum Dots** Gitanjali Majumdar, Sonit Kumar Gogoi, Anumita Paul, and Arun Chattopadhyay, *Langmuir*, **2006**, 22, 35.
7. **Solid-state storage of Ag nanoparticles in anion exchange resin beads and their recovery.** Manikandan, S.; Majumdar, G.; **Chowdhury, D.**; Paul, A.; Chattopadhyay, Arun. *Journal of Colloid and Interface Science* (2006), 295(1), 148-154.
8. **Au Nanoparticles and Polyaniline Coated Resin Beads for Simultaneous Catalytic Oxidation of Glucose and Colorimetric Detection of the Product** **Gitanjali Majumdar**, Mausumi Goswami, Tridib Kumar Sarma, Anumita Paul, and Arun Chattopadhyay. *Langmuir*, 21, 2005.