



Murshidabad University

FACULTY ACADEMIC PROFILE/ CV

Full name of the faculty member: Dr. Shrabani Barman

Designation: Assistant Professor

Contact information: Email: shrabanibarman@gmail.com

Academic qualifications:

- **2017: Ph.D.** in Organic Photochemistry, IIT Kharagpur, West Bengal, India.
- **2012: M. Sc.** in Chemistry (Organic Chemistry Specialization) IIT Kharagpur, West Bengal, India.
- **2010: B.Sc** in Chemistry, Vidyasagar University, West Bengal, India.

Positions held/ holding:

Research interests: Study the Properties of Organic and Inorganic Photoactive Molecules

Research guidance:

Projects:

Select list of publications (Only number):

- a) Journals: 10
- b) Books/ book chapters: 2
- c) Conference/ seminar volumes:

Membership of Learned Societies:

Invited lectures delivered:

Awards:

Other notable activities:

List of Journal Publication/ Conference Papers: (Last ten years)

1. **Shrabani Barman**, Sourav K. Mukhopadhyay, Moumita Gangopadhyay, Sandipan Biswas, Satyahari Dey and N. D. Pradeep Singh, Coumarin–benzothiazole–

- chlorambucil (Cou–Benz–Cbl) conjugate: an ESIPT based pH sensitive photoresponsive drug delivery system. [*J. Mater. Chem. B*, 2015, 3, 3490-3497.](#)
2. **Shrabani Barman**, Sourav K. Mukhopadhyay, Sandipan Biswas, Surajit Nandi, Moumita Gangopadhyay, Satyahari Dey, Anakuthil Anoop, N. D. Pradeep Singh, A p-Hydroxyphenacyl–Benzothiazole–Chlorambucil Conjugate as a Real-Time-Monitoring Drug-Delivery System Assisted by Excited-State Intramolecular Proton Transfer. [*Angew. Chem. Int. Ed.* 2016, 55, 1 – 6.](#)
 3. **Shrabani Barman**, Joyjyoti Das, Sandipan Biswas, T. K. Maiti, and N. D. Pradeep Singh, Spiropyran-Coumarin Platform: An Environment Sensitive Photoresponsive Drug Delivery System for efficient cancer therapy. [*J. Mater. Chem. B*, 2017, 5, 3940-3944.](#)
 4. Sandipan Biswas, Rakesh Mengji, **Shrabani Barman**, Venugopal Vangala, Avijit Jana, N.D. Pradeep Singh, ‘AIE + ESIPT’ Assisted Photorelease: Fluorescent Organic Nano-particles for Dual Anticancer Drug Delivery with Real-Time Monitoring Ability. [*Chem Commun.*, 2018, 54, 168-171.](#)
 5. Sandipan Biswas, Joyjyoti Das, **Shrabani Barman**, Bhaskara Rao Pinninti, Tapas K. Maiti, and N. D. Pradeep Singh, An Environment Activatable Nanoprodrug: Two-Step Surveillance in the Anticancer Drug Release. [*ACS Appl. Mater. Interfaces*, 2017, 9, 28180–28184.](#)
 6. Sandipan Biswas, Y. Rajesh, **Shrabani Barman**, Manoranjan Bera, Amrita Paul, Mahitosh Mandal and N. D. Pradeep Singh, A dual-analyte probe: hypoxia activated nitric oxide detection with phototriggered drug release ability. [*Chem. Commun.*, 2018, 54,7940-7943.](#)
 7. Sandipan Biswas, Joyjyoti Das, **Shrabani Barman**, Sk. Sheriff Shah, Moumita Gangopadhyay, Tapas K. Maity, N. D. Pradeep Singh, Single Component Image Guided 'On-demand' Drug Delivery System for Early Stage Prostate Cancer. [*Sensors and Actuators B*, 2017, 244, 327–333.](#)
 8. Sandipan Biswas, Moumita Gangopadhyay, **Shrabani Barman**, Jit Sarkar, N.D. Pradeep Singh, Simple and efficient coumarin-based colorimetric and fluorescent chemosensor for F- detection: An ON1-OFF-ON2 fluorescent assay. [*Sensors and Actuators B*, 2015, 222, 823-828.](#)
 9. Moumita Gangopadhyay, Sourav K. Mukhopadhyay, Sree Gayathri, Sandipan Biswas, **Shrabani Barman**, Satyahari Dey and N. D. Pradeep Singh, Fluorene–morpholine-based organic nanoparticles: lysosome-targeted pH-triggered two-photon photodynamic therapy with fluorescence switch on–off. [*J. Mater. Chem. B*, 2016, 4, 1862-1868.](#)
 10. Moumita Ganguly, Sourav K. Mukhopadhyay, Karthik S, **Shrabani Barman** and Pradeep N.D. Singh, Targeted Photoresponsive TiO₂-Coumarin nanoconjugate for efficient Combination therapy in MDA-MB-231 breast cancer cells: Synergic effect of Photodynamic Therapy (PDT) and Anticancer drug Chlorambucil. [*Med.Chem.Commun.*, 2015, 6, 769–777.](#)