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Area of Specialization:	Organic Photochemistry

Research Interest:	Organic Photochemistry & Controlled Drug Delivery
Publications in Journals:	<ol style="list-style-type: none">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. <i>Mater. Chem. B</i>, 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. <i>Chem. Int. Ed.</i> 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. <i>Mater. Chem. B</i>, 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., 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. <i>ACS Appl. Mater. Interfaces</i>, 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, *Commun.*, 2018, *54*, 7940 -7943.

7. Sandipan Biswas, Joyjyoti Das, **Shrabani Barman**, 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. *Mater. Chem. B*, 2016, *4*, 1862-1868.
10. MoumitaGanguly, Sourav K. Mukhopadhyay, Karthik S, **Sharabani 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, *Chem Commun.*, 2015, *6*, 769–777.