

Details of Publications

Published in peer-reviewed journals

1. Paul, D.; Sahoo, P.; Sengupta, A.; Tripathy, U.; **Chatterjee, S.*** Revealing the Role of Electronic Effect to Modulate the Photophysics and Z-Scan Responses of o-Locked GFP Chromophores *J. Phys. Chem. B* **2025**, *129*, 692. (Front cover article)
2. Shukla, A.; Biswal, A. S.; Chowdhury, A.; Halder, R.; **Chatterjee, S.*** Aggregation induced modulation of ground and excited state photophysics of 5-(tert-Butyl)-2-Hydroxy-1,3-Isophthalaldehyde (5-tBHI). *J. Phys. Chem. B* **2024**, *128*, 5437. (Front cover article)
3. Shukla, A.; Jha, V.K.; **Chatterjee, S.*** Non-trivial ground and excited state photophysics of a substituted phenol. *Phys. Chem. Chem. Phys.* **2024**, *26*, 6655.
4. Shukla, A.; Sarkar, A.; **Chatterjee, S.*** Surfactant Mediated Modulation of Photophysics and Self-Assembly Process of A Small, Substituted Phenol. *J. Mol. Liq.* **2023**, *390*, 123161.
5. Ghosh, S.; Sarkar, A.; **Chatterjee, S.***; Nayek, H. P. Elucidation of Selective Adsorption Study of Congo Red using New Cadmium(II) Metal-Organic Frameworks: Adsorption Kinetics, Isotherm and Thermodynamics. *J. Solid State Chem.* **2021**, *296*, 121929.
6. Karmakar, P. D.; Shukla, A.; Maiti, P.; **Chatterjee, S.***; Pal, S. Reversible Addition Fragmentation Chain Transfer-Mediated Bioconjugated Amphiphilic Graft-Block Copolymer Using Dextran, Poly (N-isopropylacrylamide), and Poly (vinyl acetate). *J. Appl. Polym. Sci.* **2020**, e50381.
7. Mondal, S.; Patra, N.; Nayek, H. P.; Hira, S.; **Chatterjee, S.***; Dey, S. Unusual Absence of FRET in Triazole Bridged Coumarin-hydroxyquinoline, an effective sensor for Hg²⁺ detection. *Photochem. Photobiol. Sci.* **2020**, *19*, 1211.
8. **Chatterjee, S.**; Ahire, K.; Karuso, P. Room-Temperature Dual Fluorescence of a Locked Green Fluorescent Protein Chromophore Analogue. *J. Am. Chem. Soc.* **2020**, *142*, 738.
9. Karmakar, P. D.; Seesala, V. S.; Pal, A.; Dhara, S.; **Chatterjee, S.**; Pal, S. Synthesis of RAFT-Mediated Amphiphilic Graft Copolymeric Micelle Using Dextran and Poly (Oleic Acid) toward Oral Delivery of Nifedipine. *J. Polym. Sci., Part A: Polym. Chem.* **2018**, *56*, 2354.
10. Mondal, S.; **Chatterjee, S.#**; Halder, R.; Jana, B.; Singh, P. Role of Dispersive Fluorous Interaction in the Solvation Dynamics of the Perfluoro Group Containing Molecules. *J. Phys. Chem. B* **2017**, *121*, 7681.
11. **Chatterjee, S.**; Karuso, P. An Efficient and Concise Method to Synthesize Locked GFP Chromophore Analogues. *Tetrahedron. Lett.* **2016**, *57*, 5197.
12. **Chatterjee, S.**; Karuso, P.; Boulangé, A.; Franck, X.; Datta, A. Excited State Dynamics of Brightly Fluorescent Second Generation Epicocconone Analogues. *J. Phys. Chem. B* **2015**, *119*, 6295.
13. **Chatterjee, S.**; Karuso, P.; Boulangé, A.; Peixoto, P. A.; Franck, X.; Datta, A. The Role of Different Structural Motifs in the Ultrafast Dynamics of Second Generation Protein Stains. *J. Phys. Chem. B* **2013**, *117*, 14951.
14. **Chatterjee, S.**; Burai, T. N.; Karuso, P.; Datta, A. Ultrafast Dynamics of Epicocconone, A Second Generation Fluorescent Protein Stain. *J. Phys. Chem. A* **2011**, *115*, 10154.

15. Sadhu, K. K.; **Chatterjee, S.**; Sen, S.; Bharadwaj, P. K. Role of Spacer in Single- or Two-Step FRET: Studies in The Presence of Two Connected Cryptands with Properly Chosen Fluorophores. *Dalton Trans.* **2010**, **39**, 4146.

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Patent

A patent is filed at Australian Patent Office. Karuso, P. H., Chatterjee, S. (2016) "Dual emission fluorescent compounds", Prov WO2016/900739 (Feb. 29, 2016).

Conference papers

1. **Chatterjee, S.**; Burai, T. N.; Datta, A. 3rd Asia Pacific Symposium on Radiation Chemistry (APSRC-2010) & DAE-BRNS 10th Biennial Trombay Symposium on Radiation & Photochemistry (TSRP-2010), BARC-ISRAPs, India, 2010.

2. **Chatterjee, S.**; Burai, T. N.; Datta, A. Workshop on Fluorescence Correlation Spectroscopy (FCS-2010), North Eastern Hill University, India, 2010.

3. **Chatterjee, S.**; Burai, T. N.; Datta, A.; Karuso. P. RACI One Day Natural Product Symposium, Royal Australian Chemical Institute, Australia, 2011.

4. **Chatterjee, S.**; Karuso. P.; Franck, X.; Datta, A. 25th IUPAC conference on photochemistry, IUPAC/Universite de Bordeaux, France, 2014.

5. **Chatterjee, S.**; Datta, A.; Karuso. P. Advances in Spectroscopy and Ultrafast Dynamics (ASUD-2014), IACS, India 2014.

6. **Chatterjee, S.**; Datta, A.; Karuso. P. Concise Synthesis and Photophysical Studies of GFP Chromophore Analogues. 23rd IUPAC Conference on Physical Organic Chemistry (ICPOC23), Australia, 2016.

7. **Chatterjee, S.**; Datta, A.; Karuso. P. Ultrafast through Ultraslow Dynamics in Molecules and Clusters' conference, Israel, 2017.

Other conference participation

1. 7th ESD (Electrostatic Storage Device) workshop and conference, held at Universite de Lyon, France in July, 2017.

2. Workshop on Imaging at nanoscale 'CONSAT' 2010-International conference on nanoscience and technology, held at IIT Bombay, India.