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Research Area:

- Bioanalytical Studies Using Photophysical Techniques (‘Antenna Effect” in Aqueous Medium→ Imaging Technique).
- Structural and Photophysical Aspects of d-f Hybrid Complexes.
- Protein Drug/Ligand Interaction.
- Mechanism and Dynamics of Energy Transfer.
- Triplet State Population and Depopulation Dynamics.
- Photoinduced Energy Transfer in the ESIPT (Excited State Intramolecular Proton Transfer) Systems and in the Micellar Systems.
- Theoretical Calculations (DFT, Docking).

Education:

M.Sc. (specialization- Physical Chemistry) V.U., PhD(C.U.)

List of Publications:

1. Sugata Samanta, **Swarna Kamal Samanta**, Sagarika Sanyal ,Moumita Mukherjee ,Sanjib Ghosh, . **RSC Adv.**,6 (2016) 110610
2. Manoranjan Maity , Mithun Chandra Majee , Sanchita Kundu ,**Swarna Kamal Samanta** , Muktimoy Chaudhury, **Inorg. Chem.**, 54 (2015) 9715.
3. **Swarna kamal Samanta**, Sk Md Towsif Abtab, Pinki Saha Sardar, Muktimoy Chaudhury, Sanjib Ghosh, **Eur. J. Inorg. Chem.**, 2014, 2014(19), 3101.
4. **Swarna kamal Samanta**, Shyamal Kr. Ghorai, Sanjib Ghosh, . **J. Photochem. Photobiol. A; Chemistry**, 252 (2013) 145.

5. Sk Md Towsif Abtab, Anandalok Audhya, Nabanita Kundu, **Swarna Kamal Samanta**, Pinki Saha Sardar, Sanjib Ghosh, Muktimoy Chaudhury,. **Dalton Trans.**, **42 (2013) 1848.**
6. Manini Mukherjee, Pinki Saha Sardar, Shyamal Kr. Ghorai, **Swarna Kamal Samanta**, Atanu Singha Roy, Swagata Dasgupta, Sanjib Ghosh, . **PLoS ONE**, **8 (4), (2013) 60940.**
7. Shyamal Kr. Ghorai, **Swarna Kamal Samanta**, Manini mukherjee, Pinki Saha Sardar, Sanjib Ghosh,. **Inorg. Chem.**, **52, (2013) 1476.**
8. Shyamal Kr Ghorai, **Swarna kamal Samanta**, Manini mukherjee, Sanjib Ghosh, **J. Phys Chem. A**, **112 (32) (2012) 8303.**
9. Manini Mukherjee, Pinki Saha Sardar, Shyamal Kr Ghorai, **Swarna kamal Samanta**, Swagata Dasgupta, Sanjib Ghosh,. **J. Photochem. Photobiol. B; Biology**, **115 (2012) 93.**