

List of Publications:

1. C.R. Bhattacharjee, **C. Datta**, G. Das, R. Chakrabarty, P. Mondal “Induction of photoluminescence and columnar mesomorphism in hemi disc salphen type Schiff bases via nickel(II) coordination” *Polyhedron*. **2012**, *33*, 417-424. (IF: 2.04)
2. C.R. Bhattacharjee, **C. Datta**, G. Das, P. Mondal “Novel photoluminescent mesogenic Schiff-base ligands bearing [N₄O₄] donors and their bimetallic Zn(II) complexes” *Mater. Sci. Eng. C*. **2012**, *32*, 735-741. (IF: 2.73)
3. C.R. Bhattacharjee, **C. Datta**, G. Das, P. Mondal “Liquid crystalline dinuclear copper(II) complexes accessed from photoluminescent tridentate [ONO]-donor Schiff base ligands” *Liq. Cryst.* **2012**, *39*, 639-646. (IF: 2.34)
4. C.R. Bhattacharjee, **C. Datta**, G. Das, P. Mondal “Green emissive salicylaldehyde-based polar Schiff bases with short alkoxy tails and their copper(II)/oxovanadium(IV) complexes: synthesis and mesomorphism” *Liq. Cryst.* **2012**, *39*, 375-385. (IF: 2.34)
5. C.R. Bhattacharjee, **C. Datta**, G. Das, P. Mondal “Induced columnar mesomorphism in non-discoid VO²⁺ salphen complexes: Transition between two rectangular columnar phases” *Liq. Cryst.* **2012**, *39*, 819-826. (IF: 2.34)
6. C.R. Bhattacharjee, **C. Datta**, G. Das, P. Mondal “Oxovanadium (IV) complexes of bidentate [N, O] donor Schiff-base ligands: synthesis and mesomorphism” *Phase Transitions*. **2012**, *85*, 956- 972. (IF: 1.04)
7. C.R. Bhattacharjee, **C. Datta**, G. Das, P. Mondal, S.K. Prasad, D.S.S. Rao “Photoluminescent columnar zinc(II) bimetallo-mesogen of tridentate [ONO] donor Schiff base ligand” *Liq. Cryst.* **2013**, *40*, 942-950. (IF: 2.34)
8. **C. Datta**, R. Chakrabarty, G. Das, C. R. Bhattacharjee, P. Mondal “Influence of spacer group substituent on mesomorphism in copper complexes of ‘salen’ type Schiff bases bearing long alkoxy arm” *Liq. Cryst.* **2014**, *41*, 541-551. (IF: 2.34)

Conferences Attended:

Poster presentation:

1. "Novel photoluminescent mesogenic Schiff-base ligands bearing [N₄O₄] donors and their bimetallic Zn(II) complexes at" **National Workshop on Soft Matters** held at Department of Chemistry, Assam University, Silchar, Assam, India. **(Best Poster Awarded)**
2. "Syntheses, characterisation and DFT study of mesogenic copper and zinc complexes of tridentate [ONO] donor Schiff base ligands possessing long terminal alkoxy arm" at 19th **National Conference on Liquid Crystals(NCLC-19)** held at Thapar University, Patiala, India.
3. "Oxovanadium(IV) And Copper(II) Complexes Of [N, O] Donor Salicylaldimine-Based Schiff Base Ligands With Short Alkoxy Arm" at **International Conference on Material Science (ICMS-2013)** held at Department Of Physics , Tripura University, Tripura, India. **(Best Poster Awarded)**
4. "Copper complexes of 'salophen' type Schiff base ligand: Synthesis, mesomorphism and influence of spacer group substituent on phase structure" at **National Conference: Current Perspectives on Research on Chemical Sciences (CPRCS-2015)** held at Department of Chemistry, Assam University, Silchar, Assam, India. **(Best Poster Awarded)**

Oral presentation:

1. "Syntheses and characterization of some binuclear d-block transition metal complexes accessed from photoluminescent mesogenic [N₄O₄] type compartmental Schiff-base ligand" at **UGC Sponsored National Seminar on Emerging Areas of Research & Development in Chemical and Physical Sciences in North East India** held at Srikishan Sarda College, Hailakandi, India.
2. "Oxovanadium(IV) complexes of bidentate [N,O] donor salicylaldimine based Schiff base ligands: Synthesis, mesomorphism and influence of flexible

alkoxy chain lengths” at **UGC Sponsored National Seminar on Advances in Research in Physical Sciences**, Cachar College, Silchar, Assam, India

Workshops Attended:

1. **Recent trends in synthesis of chemical compounds and their application in science and technology** at NIT Silchar, Assam, India.
2. **Fundamentals of Photonics and Optoelectronics** at NIT Durgapur, West Bengal, India.