List of Publications:

1. Iron(III) complexes of 2-(1H-benzo[d]imidazol-2-yl)phenol and acetate or nitrate as catalysts for epoxidation of olefins with hydrogen peroxide.

2. Syntheses, structural, spectroscopic and magnetic properties of polynuclear Fe(III) complexes containing N and O donor ligands

3. Morphological tuning of Eu₂O₂S nanoparticles, manifestation of peroxidase-like activity and glucose assay use

4. Structure, luminescence and antimicrobial properties of mononuclear silver(I) complexes of pyridine 2-carboxamide

5. Highly active spherical amorphous MoS₂: facile synthesis and application in photocatalytic degradation of rose bengal dye and hydrogenation of nitroarenes

6. Supramolecular interactions in mononuclear iron(III) complex derived from a diamide ligand: Spectroscopic and electrochemical properties

7. Enhanced photocatalytic activity of Eu-doped Bi₂S₃ nanoflowers for degradation of organic pollutants under visible light illumination


9. Colorimetric estimation of human glucose level using γ-Fe₂O₃ nanoparticles: An easily recoverable effective mimic peroxidise


11. γ-Fe$_2$O$_3$ nanoparticles: An easily recoverable effective photo-catalyst for the degradation of rose bengal and methylene blue dyes in the waste-water treatment plant.


15. Visible–light–driven synthesis of 2–substituted benzothiazoles using CdS nanosphere as heterogenous recyclable catalyst


17. Iron selenide thin film: Peroxidase-like behavior, glucose detection and amperometric sensing of hydrogen peroxide.


18. Peroxidase–like activity and amperometric sensing of hydrogen peroxide by Fe$_2$O$_3$ and prussian blue–modified Fe$_2$O$_3$ nanoparticles.

19. Syntheses, crystal structure, spectroscopic, redox and magnetic properties of oxo- and carboxylato-bridged polynuclear iron(III) complexes with phenolate and pyridine-substituted benzimidazole ligands.


20. A symmetric oxo–centered trinuclear chloroacetato bridged iron(III) complex: structural, spectroscopic and electrochemical studies.


**Conference / Seminar Proceedings:**

1. UGC Sponsored National Seminar on “Recent Development in Bio-Active Molecules (RDBAM-2016)” Department of Chemistry, Haldia Govt College, Haldia in collaboration with Vivekananda Mission Mahavidyalaya, Chaitanyapur (August 4th-5th, 2016) (*Poster Presentation*).

2. UGC-SAP Sponsored National Symposium on “Recent Advances in Chemistry Research” Department of Chemistry, Visva-Bharati, Santiniketan, West Bengal (March 04, 2016) (*Poster Presentation*).

3. UGC Sponsored National Seminar on “Mathematics and its Impact on Natural Sciences” Bangabasi Morning College, 19, Rajkumar Chakraborty Sarani, Kolkata-700009 (September 11-12, 2015) (*Poster Presentation*).


5. MTIC–XVI symposium, Department of Chemistry, Jadavpur University, Kolkata-India (December 3–5, 2015) (*Poster Presentation*).

6. 20th West Bengal state science and technology congress 2013, held at Bengal Engineering and Science University, Shibpur, Howrah 711 103, West Bengal, India (February 28–March 02, 2013) (*Oral Presentation*)

8. **19th West Bengal state science and technology congress 2012**, held at Saha institute of nuclear physics (SINP), Kolkata, India (March 01–02, 2012) (*Oral Presentation*).

9. **MTIC–XIV symposium**, School of chemistry, University of Hyderabad, India (December 10–13, 2011) (*Poster Presentation*).

10. National seminar on “**Recent advances in selected topics of chemistry–II**”
    Department of Chemistry, Bengal Engineering and Science University, Shibpur, Howrah, India (March 24–25, 2011) (*Poster Presentation*).

11. **13th CRSI National Symposium in Chemistry**, NISER and KIIT university, Bhubaneswar, India (February 04–06, 2011) (*Poster Presentation*).


13. International symposium on “**Frontiers in inorganic chemistry (FIC–2010)**”
    Department of Inorganic Chemistry, Indian Association for the cultivation of science(IACS), Kolkata, India, (December 11–13, 2010) (*Poster Presentation*).

14. Symposium–VIII on “**Advances in chemical research, CRSI (Kolkata chapter)**”
    Department of Chemistry, Bengal Engineering and Science University, Shibpur, Howrah, India (August 06, 2010) (*Poster Presentation*).