



Name: Dr. Madhusudan Bera
Designation: Assistant Professor of Chemistry in W.B.E.S
Office: Department of Chemistry
Government General Degree College, Dantan-II
Kashmuli, Paschim Medinipur-721445.

Educational Qualification: M. Sc in Chemistry from Vidyasagar University in 2008, PhD in Chemistry from Vidyasagar University in 2015.

Teaching Interest: Physical Chemistry

Email: madhusudan.chem@gmail.com

Publication:

1. Sensing of Zn²⁺ ion by N-Furfurylsalicylaldimine Based on CHEF Process
S. K. Jana, **M. Bera**, H. Puschmann and S. Dalai, J Fluoresc., 2014, **24**, 1245.
2. 2D and 1D coordination polymers of Ag(I) ions with 2,6-naphthalenedicarboxylate and N-donor coligands
M. Bera, S.K. Jana, D. Hazari, A. Rana, D.S. Chowdhuri, H. Puschmann, , E. Zangrando and S. Dalai, J. Inorg. Organomet. Polym., 2013, **23**, 325.
3. Two new metal-organic coordination polymers of lead with O-, N-donor ligands: Synthesis, characterization, luminescence and thermal behaviour
A. Rana , S.K. Jana , **M. Bera**, D. Hazari , D.S. Chowdhuri, E. Zangrando and S. Dalai, J. Solid State Chemistry, 2013, **197**, 46.
4. A New 3D silver(I) coordination polymer with octadentate diglycolate ligand having silver-silver bond
M. Bera, A. Rana, D.S. Chowdhuri, D. Hazari, S.K. Jana, H. Puschmann and S. Dalai, J Inorg Organomet Polym., 2012, **22**, 1074.
5. Three dimensional silver(I)-thiodiglycolate coordination polymer with weak Ag-Ag bond

M. Bera, A. Rana, D.S. Chowdhuri, D. Hazari, S.K. Jana, H. Puschmann and S. Dalai, *J Inorg Organomet Polym.*, 2012, **22**, 897.

6. 3D Silver(I)-Diglycolate Coordination Polymer with Short Ag-Ag Bond

M. Bera, A. Rana, D.S. Chowdhuri, D. Hazari, H. Puschmann and S. Dalai, *J. Inorg. Organomet. Polym.*, 2012, **22**, 244.

7. 3D coordination network of Ag(I) ions with μ_3 -bridging melamine ligands

A. Rana, **M. Bera**, D. S. Chowdhuri, D. Hazari, S.K. Jana, E. Zangrando and S. Dalai

J. Inorg. Organomet. Polym., 2012, **22**, 360.

8. Synthesis, Crystal Structure, Thermal and Luminescent Characterization of Two New 3D Cadmium–Carboxylate Frameworks

D.S. Chowdhuri, **M. Bera**, A. Rana, D. Hazari, S.K. Jana, E. Zangrando and S. Dalai

J. Inorg. Organomet. Polym., 2012, **22(5)**, 963.

9. Synthesis, crystal structure, thermal and photoluminescence properties of Cd carboxylate coordination polymers: a new 2D structure and a reinvestigation of Cd tartrate

D.S. Chowdhuri, S.K. Jana, D. Hazari, **M. Bera**, A. Rana, E. Zangrando and S. Dalai

J. Coordination Chemistry, 2012, **65(22)**, 3960.

10. Synthesis, characterization, luminescent and thermal properties of a hybrid inorganic-organic polymeric framework formed by lead(II) pyridinecarboxylate

A. Rana, **M. Bera**, D.S. Chowdhuri, D. Hazari, R.J. Butcher and S. Dalai

J. Inorg. Organomet. Polym., 2011, **21**, 747.

11. 3D purely inorganic lead azide coordination polymer constructed by exclusive end-to-end azido binding

A. Rana, **M. Bera**, D.S. Chowdhuri, B.P. Bag, R.J. Butcher and S. Dalai, *J. Mol. Structure*, 2011, **990**, 102.

12. Combination of covalent and hydrogen bonding in the formation of 3D uranyl-carboxylate networks

S. Dalai, **M. Bera**, A. Rana, D.S. Chowdhuri and E. Zangrando *Inorg, Chim, acta*, 2010, **363**, 3407.

13. Synthesis, structure and luminescence study of two cadmium(II) coordination polymers with hetero donor ligands: Expansion of network dimensionality from 2D to 3D through hydrogen bonding

S. Dalai, D.S. Chowdhuri, **M. Bera**, A. Rana, N. Guidolin, E. Zangrando, *Inorg. Chim. Acta*, 2010, **363**, 3700.

14. 3D non porous and thermally labile nickel(II) and manganese(II) complexes with hetero donor ligands: Synthesis, X-ray single crystal structure, thermal and luminescent study

S. Dalai, A. Rana, **M. Bera**, D.S. Chowdhuri and E. Zangrando, *Inorg. Chim. Acta*, 2010, **363**, 1843.

15. Cubane-like water clusters in a 3D supramolecular network of zinc with pyridine-2,6-dicarboxylic acid and 5-aminotetrazole

S. Dalai, A. Rana, D.S. Chowdhuri, **M. Bera**, and E. Zangrando, *Inorg. Chim. Acta*, 2010, **363**, 1052.

16. 3D zinc(II) coordination polymers built up by triazole and benzene-polycarboxylate anions: Synthesis, crystal structure, thermal and photoluminescence characterization

D.S. Chowdhuri, A. Rana, **M. Bera**, E. Zangrando and S. Dalai, *Polyhedron*, 2009, **28**, 2131.