

Curriculum Vitae

Name: Dr. Madhusudan Bera

Designation: Assistant Professor

Highest qualification: M. Sc, Ph D

Contact details/ Office address:

Department of Chemistry, Darjeeling Govt. College
Lebong Crad Road, Darjeeling



Vidwan ID:

Email id: madhusudan.chem@gmail.com

Date of joining to this institution: 05.06.2026

Date of joining W.B.E.S.: 02.06.2015

Previous position(s) held: Govt. General Degree College, Dantan-II (02.06.2015 to 04.06.2015)

Teaching experience in years & months: 11 years

Awards, Recognition and Honours:

Courses taught: Physical Chemistry

Research area/ interest: Synthesis, Characterization and Application of Coordination Polymers

Number of Publications-

***Peer reviewed journals:** 16

***Conference proceedings:**

***Chapters in books:**

Detailed list of publications

1. Sensing of Zn^{2+} ion by N-Furfurylsalicylalimine 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 behavior.

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

Google Scholar link:

Research Gate link:

ORCID ID:

Participation in Workshops/ Training programme/ Certificate course:

Name of the Course/ Summer School	Place	Duration	Sponsoring Agency
Faculty Induction Programme	UGC-HRDC, Aligarh Muslim University, Aligarh	12.07.2023 to 17.08.2023 (4 weeks)	UGC
Subject Refresher Course in Disaster Management (Interdisciplinary)	UGC-HRDC, Aligarh Muslim University, Aligarh	05.12.2023 to 18.12.2023 (2 weeks)	UGC
Refresher Course in “Cyber Sphere and Security: Global Concerns (MD)”	UGC-MMTTC, Saurashtra University, Rajkot, Gujrat	05.01.2026 to 17.01.2026 (2 weeks)	UGC