



DR. MITHUN CHAKRABARTY

ACADEMIC QUALIFICATIONS:

PhD

TITLE OF THESIS: “Synthetic and Structural Investigation of Molybdenum, Nickel and Zinc Complexes Derived from Bis(2-hydroxy-1-naphthaldehyde) Succinoyldihydrazone”

University: North-Eastern Hill University, Shillong.

M.Sc (Chemistry)

University: North-Eastern Hill University, Shillong.

PUBLICATIONS:

1. Synthesis and crystal structure of $[\text{Mn}_2(\text{H}_2\text{sal})_2(\text{Hsal})_2(\text{H}_2\text{O})_4]$. First example of the reductive synthesis of a binuclear manganese(I) salicylate complex.

Ram A. Lal*, Aka Lemtur, Sanjesh Choudhury, **Mithun Chakrabarty** and Debjani Basumatary, Mahesh K. Singh, Samhita Bhaumik, Arjun K. De and Arvind Kumar. *Transition Metal Chemistry* 31, 423 – 428, (2006).

2. Synthesis and spectral studies of nickel(II) complexes derived from disalicylaldehyde oxaloyldihydrazone.

R. A. Lal, S. Choudhury, A. Ahmed, **M. Chakrabarty**, R. Borthakur and A. Kumar, *Journal of Coordination Chemistry*, 62, 3864-3874 (2009).

3. Synthesis and spectral Characterization homobimetallic molybdenum (VI) complexes derived from bis(2-hydroxy-1-naphthaldehyde)succinoyldihydrazone.

Ram A. Lal, **Mithun Chakrabarty**, Sanjesh Choudhury, Aziz Ahmed, Roshmita Borthakur and Arvind Kumar, *Journal of Coordination Chemistry*, 63, 163-175 (2010)

4. Synthesis and Characterization of heterobimetallic Ni(II)- Zn(II) Complexes Derived from bis(2-hydroxy-1-naphthaldehyde)succinoyldihydrazone.
R. A. Lal, **M. Chakrabarty**, O. B. Chanu , S. Choudhury, R. Borthakur, S. Copperfield and A. Kumar, *Journal of Coordination Chemistry*, 63, 1239 - 1251 (2010)
5. Synthesis, Characterization and Structural Assessment of the complexes derived from the reaction of Mo (VI) complex $[(\mu_2\text{-O})_2(\text{MoO}_2)_2(\text{H}_4\text{nsh})_2]\cdot 2\text{C}_2\text{H}_5\text{OH}$ with substituted pyridine.
Mithun Chakrabarty and Ram A. Lal , *Transient, A Journal of Natural and allied subjects* published by Don Bosco College Tura, vol. 2 (2012) (ISSN 2250-0650).
6. Synthesis and spectroscopic characterization of monometallic molybdenum (VI) complexes derived from bis(2-hydroxy-1-naphthaldehyde)succinoyldihydrazone.
A. Kumar, A. Koch, R. Borthakur, **M. Chakraborty** , A. K. De, A. Phukan, G. Bez, and R. A. Lal , *Journal of Molecular Structure* , Volume 1063, 92-101(2014)
7. Synthesis, Characterization, and Structural Assessment of Ni(II) Complexes Derived from Bis(2-hydroxy-1-naphthaldehyde) succinoyldihydrazone”, **Mithun Chakrabarty** Aziz Ahmed and Ram A. Lal. *International Journal of Inorganic Chemistry*,
Volume 2015 (2015), Article ID 121895, 11 pages
(<http://dx.doi.org/10.1155/2015/121895>)
8. Cyclic voltametric Studies of Copper and Cadmium Porphyrins. A. Murugan, V. Thandiyyakone. and **Mithun Chakrabarty**. Proceedings of 4th National Conference of Technologically Important Crystalline and Amorphous Solids. (TICAS 2018) organized by Department of Physics and International Research Centre (IRC) Kalasalingam Academy of Research and education, Tamil Nadu-626126 on 2nd and 3rd March 2018 (ISBN: 978-81- 909237-3-6)
9. Cyclic Voltammetric Studies of Vanadyl Porphyrin.. A. Murugan, **Mithun Chakrabarty** and V. Thandiyyakone. Proceedings of 5th National Conference of Technologically Important Crystalline and Amorphous Solids. (TICAS 2019) organized by Department of Physics, School of Advance Science, Kalasalingam Academy of Research and education, Tamil Nadu-626126 on 5th and 6th April 2019 (ISBN: 978-81-909237-4-3).
10. Electrochemical Studies on Vanadyl Complex with *meso*-5,10,15,20-tetrakis(2,5-Dimethoxyphenyl)porphyrin using Electron Paramagnetic Resonance and Cyclic

Voltammetry. A. Murugan, V. Thandiayyakone, S. Kumarasam, C.R. Ravikumar, S. Muthaiah, **Mithun Chakrabarty**, P. Thillaiarasu, T.Rajkumar, and H.S. Yadav. *Asian Journal of Chemistry*; Vol. 33, No. 1 (2021), 26-30
(<https://doi.org/10.14233/ajchem.2021.22905>)

SEMINARS/WEBINARS AND WORKSHOPS ATTENDED:

1. National Symposium on Advances in Chemistry and Environmental Impact (2-3 November 2006) organized by Department of Chemistry, North-Eastern Hill University, Shillong- 793022, Meghalaya, India.
2. The 96th Indian Science Congress 2009 (3-7 January 2009) held at North-Eastern Hill University, Shillong-793022, Meghalaya, India.
3. National Symposium on Organometallic Chemistry and Organic Synthesis: Highlights and New Perspectives (28 – 29 March 2011) organized by Department of Chemistry, North- Eastern Hill University, Shillong-793022, Meghalaya, India.
4. North-East Regional Seminar on Trends in Colloid and Interface Science (27- 28 November 2014) organized by Department of Chemistry, North-Eastern Hill University, Shillong- 793022, Meghalaya, India.
5. Workshop on National Mission on Education through Information and Communication Technology (NMEICT) Awareness, (25-26 September, 2015) organized by National Institute of Technology, Meghalaya.
6. Regional workshop on Good Governance, Development and Human Rights (3-4 November 2016) by NHRC in collaboration with Meghalaya with Participating States Mizoram, Manipur, Nagaland and Assam.
7. Faculty Development Live webinar ‘ Organised by St. Anthony’s College, Shillong, Meghalaya, India held online on 17th June 2020.
8. A Multi session web workshop on ‘Designing Quality Multiple Choice Questions’ organised by Association of Chemistry Teachers(ACT), Mumbai, India from 1st to 10th August, 2020.
9. Five day online Faculty Development Programme on ‘Online Pedagogical Tools and Techniques and Blended Learning’ organised by IQAC, St. Anthony’s College, Shillong, Meghalaya, held online from 8th to 12th September, 2020.

10. VIRTUAL CONFERENCE, on 'Education in the 21st Century: Adapting to a Changing World (E21ACW)' Organised by the PG Department of Education, St. Anthony's College, Shillong, Meghalaya, India, held online on 1-2 June 2020.
11. WEBINAR on "Changing Roles of Teachers in a COVID-19 Afflicted World" Organised by the PG Department of Education, St. Anthony's College, Shillong, Meghalaya, India in collaboration with Loyola College, Williamnagar, East Garo Hills, Meghalaya, India, held online on 12 June 2020.
12. National Webinar on Chemistry Education: Prospects & Opportunities, jointly Jointly organized by Department of Chemistry, Pandu College, Guwahati, Assam, India and ACT, North East Zone, held online on 26th June 2020.
13. National Webinar on 'Scintillating Chemistry(SC-2020)' Organised by Association of Chemistry Teachers (ACT) East Zone, Mumbai, India held online on 28th June 2020
14. Faculty Enrichment Live webinar ' Organised by Department of Value Education and English, St. Anthony's College, Shillong, Meghalaya, India held online on 30th June 2020.
15. International webinar on 'Different Cloud Platforms' jointly organized by St. Alphonsa College, Karinkal, Tamil Nadu, India and St. Anthony's College, Shillong, Meghalaya, India, held online on 4th July 2020
16. International webinar on 'COVID-19 and its Impact on Mental Health' Organised by Department of Education and IQAC, Don Bosco College, Golaghat, Assam, India held online on 11th July 2020.
17. International webinar on 'Advanced Materials for sustainable Development' Organised by Department of Chemistry Chouksey Group of Colleges, Bilaspur, Chattisgarh, India held online on 12th July 2020.
18. Live Webinar on ' Grassroot Governance and Contributions of Traditional Institutions in the Management of Covid-19 in Meghalaya' Organised by Department of Political Science and IQAC St. Anthony's College, Shillong, Meghalaya, India held online on 18th July 2020.
19. Webinar on 'Preparation Methods and Deposition Techniques of Nanostructures organized by PG and Research Department of Physics, National College (Autonomous), Tiruchirappalli, Tamil Nadu, India held online on 25th July 2020.

20. International web conference on Recent Advances in Science (IWCRAS 2020)
Organised by Department of Physics and IQAC, Don Bosco College, Tura Meghalaya, India, held online on 30th and 31st July 2020.
21. A multi session web workshop on ‘Designing Quality Multiple Choice Questions’ organised by Association of Chemistry Teachers(ACT), Mumbai, India from 1st to 10th August, 2020.
22. National Level online Learning cum e-Quiz Programme ; Today's tools for Tomorrow's Teaching-TTTT organized by Department of Education, Institute of Distance Learning (IDE), University of Madras held online on 3rd August 2020.
23. National Webinar on Technology and Innovation in Education Organized by the Department of Education , Don Bosco College , Tura, on 3rd August 2020.
24. International Webinar on ‘Anti-Viral Drug Discovery: Creation of an Armoury for The present and Future Pandemics’ organised by Department of Chemistry, Albert-Einstein School of Physical Sciences, Assam University, Silchar, Assam, India, held online on 8th August 2020.
25. Three day International Webinar on "Trends in Chemical Science: Challenges and Opportunities" conducted by Department of Chemistry, St.Philomena's College (Autonomous), Mysore from 04th -06th November 2020.
26. Recent Advances in Chemistry Education and Chemical Research on Nov.29 &30 and Dec. 01, 2020, organised by Association of Chemistry Teachers(ACT),C%Homji Bhabha centre of Science Education (TIFR), Mumbai and Department of Chemistry ,MLSM College, Darbhanga, Bihar India.
27. 1-day National Level Webinar on “Recent Advances in Nanomaterials Based Pesticides Sensor” organized by Department of Chemistry, Union Christian College,Umiam Khwan, Ri-Bhoi District, Meghalaya-793122 on 4th December 2020.
28. Intellectual Property Rights and its Applications organized by the IQAC and the Department of Zoology, St. Anthony's College, Shillong on the 11th and 12th December, 2020.
29. “Global Women's Breakfast”organized by the Dept. of Chemistry, Government General Degree College, Singur, Association of Chemistry Teachers (ACT), Rani Rashmoni Green University in collaboration with IUPAC on 9th February , 2021 from 3:30 PM IST.

30. Plant Bioresources of Meghalaya : Potential and Prospects”organised by Department of Botany, St. Anthony’s College, Shillong to commemorate “WORLD ENVIRONMENT DAY” on 5.6.2021
31. One-day National Webinar on Role of Media in Different Spheres during the COVID-19 Pandemic on 13th August, 2021, organized by Human Resource Development Centre, North-Eastern Hill University Shillong -793022.
32. National Webinar on Chemistry in Everyday Life organized by BioLogic on 4th September, 2021.
33. One Day National Webinar On New Education Policy 2020 on 8th October, 2021. organized by Human Resource Development Centre, North-Eastern Hill University Shillong -793022
34. National Webinar on “Wildlife of India: With Special reference to North –East India” on 4th October 2021 as part of the World Animal Day celebrations, Organized by the Department of Zoology, St. Anthony’s College, Shillong and supported by the Bio-Resources Department Centre (BRDC), Upper Shillong, Shillong.
35. DBHEI FDP Series 1- Writing a Quality Research paper and Selecting the Journals(2 Days and 2 Hours) Organized by Don Bosco Higher Education Institutions on October 23 and 30 2021.
36. One Day National Webinar on Waste Management organized by The Science Departments, Synod College, Shillong, under the DBT –Star College Scheme, sponsored by The Department of Biotechnology, Ministry of Science and Technology, Government of India hosted on the 3rd November, 2021.
37. Recent Developments Nano-materials Chemistry and Natural Products Chemistry organized by Department of Chemistry, Shillong College as part of the Celebration of the 50th Anniversary of Statehood of Meghalaya on 10th December 2021.

PRESENTATIONS IN SEMINARS, WORKSHOPS, CONFERENCES AND OTHERS:

1. Presented a poster entitled ‘Synthesis and Structure of a Series of V-M (M= Li, Na, &K)Heterobimetallic Complexes Using Metalloligand (VO₂L): Discrete Mononuclear to 3D Coordination polymer in REACH-2015, An International Symposium on Recent Advances in Chemistry (3-5 March 2015) Organized by UGC-Centre for Advanced Studies in Chemistry, Department of Chemistry, North-Eastern Hill University, Shillong-793022, Meghalaya, India.

**WORKSHOPS, SEMINARS AND OTHERS ORGANISED AND
CO- ORDINATED:**

1. Member of the organizing committee of the International Conference on Climate Change Mitigation and Technologies for Adaptation, 2016 (IC3MTA 2016), held at Synod College premises, during 20-21 June. The conference was organized by UTM Shillong, in collaboration with Synod College Shillong, and IRD India.
2. Organising Committee Member of the Annual S. N. Pal Memorial Lecture 2018 on the topic “Energy Conservation” organised by the Department of Chemistry, St. Anthony’s College, Shillong, held on 7th April, 2018.
3. Organising Committee Member of the Annual S. N. Pal Memorial Lecture 2019 on the topic “Liquid Crystals” organised by the Department of Chemistry, St. Anthony’s College, Shillong, held on 18th April, 2019.
4. Organising Committee Member of the Annual S. N. Pal Memorial Lecture 2020 on the topic “Understanding the Basic Concepts of Nanomaterials” organised by the Department of Chemistry, St. Anthony’s College, Shillong, held on 11th December 2020.
5. Organising Committee Member of the National Webinar on “Natural Products: Their Importance and Applications”, organised by the Department of Chemistry, St. Anthony’s College, Shillong, held on 27th November 2021.