



DR SIEWDORLANG DIAMAI

ACADEMIC QUALIFICATIONS:

PhD

TITLE OF THESIS: “Studies on the Colorimetric sensing of metal ions and organic molecules using gold and silver nanoparticles”

University: North Eastern Hill University

M.SC (Chemistry)

University: North Eastern Hill University

OTHER QUALIFICATIONS:

National Eligibility Test for Lectureship, UGC

PUBLICATIONS:

1. “EDTA-capped gold nanoparticles as a colorimetric probe for aluminium”.
Siewdorlang Diamai and Davendra P.S. Negi
Material Research Express, **2016**, 3, 115002.
2. “Sensitive determination of 6-mercaptopurine based on the aggregation of phenylalanine capped gold nanoparticles.”
Siewdorlang Diamai, Wandibahun Warjri, Dipika Saha, Devendra P.S. Negi
Colloids and surfaces A, **2018**, 538, 593-599
3. “Cysteine stabilized silver nanoparticles as a colorimetric probe for the selective detection of cysteamine.”
Siewdorlang Diamai and Davendra P.S. Negi
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, **2019**, 215, 203-208

4. "Effect of pH on the interaction of hypoxanthine and guanine with colloidal Zn/s nanoparticles: A spectroscopic approach"
Dipika Saha, **Siewdorlang Diamai**, Wandibahun Warjri, Davendra P.S. Negi
Journal of molecular Liquids, **2019**, 278, 460-466.
5. "Catechol oxidase mimetic activity of cadmium sulfide nanoparticles for the oxidation of L-3,4-dihydroxyphenylalanine"
Wandibahun Warjri, Dipika Saha, **Siewdorlang Diamai** and Davendra P.S. Negi
Materials Research Express, **2019**, 6, 035020
6. "Half Sandwich platinum group metal complexes of thiourea derivative ligands with benzothiazole moiety possessing anti-bacterial activity and colorimetric sensing: Synthesis and characterization.
Lathewdeipor Shadap, **Siewdorlang Diamai**, Venkanna Banothu, D.P.S. Negi, Uma Adepally, Werner Karminsky, Mohan Rao Kollipara.
Journal of Organometallic Chemistry, **2019**, 884, 44-54.
7. "Synthesis, biological evaluation and colorimetric sensing studies of platinum group metal complexes comprising pyrazine based thiourea derivatives"
Lathewdeipor Shadap, **Siewdorlang Diamai**, Jaya Lakshmi Tyagi, Krishna Mohan Poluri, Werner Karminsky, Mohan Rao Kollipara.
Journal of Organometallic Chemistry, **2019**, 897, 207-216.
8. "Colorimetric detection of Pb²⁺ ions using PVP-capped silver nanoparticles."
Siewdorlang Diamai and Davendra P.S. Negi
The NEHU journal, **2020**, 13, 33-41

SEMINARS AND WORKSHOPS ATTENDED:

1. Participated in the *Capacity Building workshop organized by the Centre for Education Beyond curriculum* (CEDBEC), Christ University, Bengaluru held on **6-11 June 2016**.
2. Participated in the National Seminar on "*Recent Developments in Chemistry*" held on the **12th and 13th of July, 2017** organized by the Department of Chemistry, Saint Mary's College, Shillong, Meghalaya.
3. Participated in the *Regional workshop on Research Based Pedagogical Tools* held from **27th to 29th July, 2017** at North eastern Hill University, Shillong, Meghalaya organized by the Center of Excellence in Science and Mathematics Education at Indian Institute of Science

Education and Research (IISER) PUNE and North Eastern Hill University, Shillong, Meghalaya.

4. Participated in Refresher Course in Chemistry from **21st October 2019 to 3rd November 2019** organized by the UGC-HRDC North Eastern Hill University, Shillong.
5. Attended the *Orientation Programme on Student Engagement and Neural Mechanisms of Learning* held at St. Anthony's College, Shillong on **7th March 2020**.
6. Attended a live webinar on *Changing Roles of Teachers in a covid-19 Afflicted World* organized by St Anthony's College, Shillong, Meghalaya and Loyola College, Williamnagar, Meghalaya on **12th June 2020**.
7. Participated in *National Webinar in Chemistry* conducted on **June 15, 2020** organized by the Department of Chemistry, Don Bosco College, Tura.
8. Attended the *National Webinar in Chemistry Education: Prospects and Opportunities*, jointly organized by Department of Chemistry, Pandu College and ACT, North East Zone on **26th June 2020**.
9. Participated in the *National Webinar on Scintillating Chemistry (SC-2020)* organized online on **June 28, 2020** during 5.00 pm to 8.00 pm by the Association of Chemistry Teachers.
10. Participated in the live webinar: Edition 2 titled *Addressing Core issues in Teaching* held on **30th June, 2020**, organized by Departments of Value Education and English, St Anthony's College, Shillong.
11. Participated in the *International Webinar on Different Cloud Platforms* held on **4th July, 2020** jointly organized by the Department of Computer Science of St. Alphonsa College, Karinkal, Tamil Nadu, India and St. Anthony's College, Shillong, Meghalaya, India.
12. Participated in the Webinar on "*Chemistry of Health and Wellness*" organized by the Department of Chemistry, Dr Meghnad Saha College, on **6th July 2020**.
13. Participated in the *International webinar "Covid-19 and its impact on mental health"* held on **11th July 2020** organized by the Department of Education, Don Bosco College, Golaghat in Association with IQAC.
14. Participated in the *International webinar on Advanced Materials for Sustainable Development* held on the **12th July 2020**, organized by the Department of Chemistry, Chouksey Group of colleges, Bilaspur.
15. Participated in the webinar on "*Sustainable Chemistry for the synthesis of Novel Biologically significant Natural Heterocycles and product quality assessment in the Pharma Industry*"

organized by Department of Chemistry, Assam Don Bosco University, Assam, held on **18th July 2020**.

- 16.** Participated in the live webinar on *Grassroots Governance and Contributions of Traditional Institutions in the Management of Covid-19 in Meghalaya* held on **18th July 2020** organized by the Department of Political Science under the aegis of Internal Quality Assurance cell, St Anthony's College.
- 17.** Participated in the *International Webinar on Chemistry, the Central Science- Prospects and opportunities for a purpose Life* on **2nd August, 2020**, organized by P.G. Department of chemistry in association with Chemical Society and IQAC, Handique Girls College, Guwahati
- 18.** Participated in the *First International Virtual Conference on Nanomaterials, FIVCON-2020*, held on **10-12th September 2020** organized by the Department of Nanotechnology, Acharya Nagarjuna University, Guntur. A.P., India as part of the ANU Nanotechnology virtual Lecture Series.
- 19.** Attended a *one-week National Online Faculty Development Program on Quality Science Education in Indian in the 21st Century* from the **3rd November to 09th November 2020**, organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the PMMMNMTT of Ministry of Education (MoE) and Christ College (Autonomous), Irinjalakuda, Kerala.
- 20.** Participated in the 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 on the **4th December 2020**.
- 21.** Participated in the *National Webinar on 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**.
- 22.** Participated in the *Workshop on E-Content Development and Online Pedagogy* from the **15th to 21st January 2021** in online mode organized by the UGC-HRDC, North Eastern Hill University, Shillong.
- 23.** Participated in the *National Webinar on National Education Policy 2020 and Its Implication on Higher Education* organized by IQAC and the Department of Value Education, St. Anthony's College, Shillong on **07 April 2021**.
- 24.** Participated in the *National Level Webinar on Gender Equity in College Campuses*, held on the **29 June 2021**, organized by Women's Anti-Harassment Cell in Collaboration with IQAC, St. Anthony's College, Shillong, Meghalaya.

25. Participated in the *International Webinar on “Women in Science (WinS-2)”* organized by the Association of Chemistry Teachers, Mumbai in association with SRM Institute of Science and Technology, Ramapuram campus, Chennai, on **24th July, 2021**.
26. Participated in the one-day *National Webinar on Role of Media in Different Spheres during the COVID-19 Pandemic*” organized by UGC – Human resource development Centre, NEHU, Shillong on **13th August 2021**.
27. Participated in *National Webinar entitled “Teacher’s e-Kit: A Four Quadrant Approach for Development of OERs for Higher Education”* organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) of Ministry of Education on **09th September 2021**.
28. Participated in *one day National Webinar on New Education Policy 2020*, organized the UGC-HRDC, North Eastern Hill University, Shillong, Meghalaya held on the **8th October 2021**.
29. Participate in *one day National Webinar on Introduction to Artificial Intelligence in future e learning* on **26th October 2021** organized by UGC-HRDC, North Eastern hill University, Shillong.
30. Participated in the *National Webinar on “Recent Developments in Nanomaterials Chemistry and Natural Products Chemistry”* on **10th December 2021**, organized by the Department of Chemistry, Shillong College as part of the Celebration of the 50th anniversary of statehood of Meghalaya

PRESENTATIONS IN SEMINARS, WORKSHOPS, CONFERENCES AND OTHERS:

1. Participated and presented a poster in the **International Conference on Chemistry and its Diversities (ICCD-16)** organised by the Department of Chemistry, St Anthony’s College held on 24th and 25th November 2016.
2. Participated and presented a poster in the **International Conference on Advances in Nanotechnology (iCAN-2017)** held at Assam Don Bosco University. AZARA Campus, Guwahati during 9th-13th January 2017.
3. Participated and presented a poster at **Frontiers in Chemical Sciences (FICS 2018)** held at Department of Chemistry, IIT Guwahati during 6-8th December 2018.

4. Participated and presented a paper in the **International Web conference on Recent Advances in Science (IWCRAS 2020)** held on 30th and 31st of July, 2020.

WORKSHOPS, SEMINARS AND OTHERS ORGANISED AND CO-ORDINATED:

1. Organizing member of the ‘International conference on Chemistry and its diversities – 2016 (ICCD -16) organized by the Department of Chemistry, St Anthony’s college, held on the **24th and 25th November 2016.**
2. Convener and organizing member for the **Annual S. N. Pal Memorial Lecture 2020** on the topic “Understanding the Basic Concept of Nanomaterials” organized by the Department of Chemistry, St. Anthony’s College, on 11th December 2020.
3. Convener and organizing member of the National Webinar on “**Natural Products: Their Importance and Applications**” held on **27th November 2021**, organized by the Department of Chemistry, St Anthony's College, Shillong.

AWARDS:

Awardee of the “Mait Shaphrang Award 2020” an appreciation and Honour awarded by the Khasi Students’ Union (KSU) Mawlai Circle in recognition and encouragement for completing the Ph.D in Chemistry from NEHU .