MD. KHAIRUL ISLAM

Wazed Miah Science Research Centre
Jahangirnagar University
Savar, Dhaka-1342

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EDUCATIONAL QUALIFICATION

Name of Certificate	University	Department	Passing Year
Master of Philosophy (M.Phil.)	Jahanginagar University	Chemistry	2023
Master of Science (M.S.)	Jahanginagar University	Chemistry	2012
Bachelor of Science (B.Sc.)	Jahanginagar University	Chemistry	2011

PROFESSIONAL AND ACADEMIC EXPERIENCES

Senior Scientific Officer
(06 June 2023-Present)
Wazed Miah Science Research Centre
Jahangirnagar University, Savar, Dhaka-1342

Visiting Scientist
(02 July 2023-25 September 2023)
Institut für Anorganische Chemie I Lehrstuhl für nanoporöse und nanoskalierte Materialien
Heinrich Heine University Düsseldorf, Germany

Scientific Officer
(25 February 2021-06 June 2023)
Wazed Miah Science Research Centre
Jahangirnagar University, Savar, Dhaka-1342

X-Ray Diffraction Scientist
(01 January 2018-24 February 2021)
Wazed Miah Science Research Centre
Jahangirnagar University, Savar, Dhaka-1342

Lecturer of Chemistry (Part Time)
(10 January 2019-30 December 2021)
Department of Textile & Fashion Management
Institute of Science, Trade & Technology, Section-14, Mirpur, Dhaka-1216.

Radiation Control Officer (Acting)
(June 2016-Present)
Assigned by Bangladesh Atomic Energy Regulatory Authority (BAERA) *to Wazed Miah Science Research Centre, Jahangirnagar University, Savar, Dhaka-1342*

X-Ray Diffraction Application Scientist
(01 December 2015-31 December 2017)
Under Higher Education Quality Enchantment Project (HEQEP, P-3438)
Wazed Miah Science Research Centre, Jahangirnagar University, Savar, Dhaka-1342

Executive, Quality Control
(29 June 2014 – 14 November 2015)
Square Formulations Limited
Momin Nagar, Gorai, Mirzapur, Tangail, Bangladesh

ADVANCED TRAINING

X-Ray Powder Diffraction and Data Analysis
(27 January 2019)
Centre for Advanced Research in Sciences, by *Bangladesh Crystallographic Association*.

Advanced Training on Explorer (X-Ray Diffractometer)
(06 March 2017-17 March 2017)
Wazed Miah Science Research Centre (Under HEQEP, CP-3438) by *DFP Technologies, Italy.*

Single Crystal X-Ray Diffraction Instrument Operation
(12 December 2016-13 January 2017)
Wazed Miah Science Research Centre, JU, Dhaka, Bangladesh by *Bruker, Germany*

Powder X-Ray Diffraction Instrument Operation
(26 June-02 July 2016)
GNR Analytical Instruments Group, Agrate Conturbia (NO)-Italy

Computer Aided Drug Design
(01 May-30 May, 2015)
Red-Green Research Center, Dhanmondi, Dhaka

SELECTED PUBLICATIONS

1. Saadati A, Amiri Rudbari H, Aryaeifar M, et al. Experimental and computational studies on pseudotetrahedral nickel(II)-(S or R)-dihalogen-salicylaldiminates with Δ- or Λ-chirality induction at-metal. CrystEngComm. 2023;25(3):365-377. doi:10.1039/D2CE01311H
2. Haque I, Siam Abdullah M, Khairul Islam M, Enamullah M. Synthesis, PXRD structure, spectroscopy, cyclic voltammogram, thermal analysis and DFT/TD-DFT calculations of bis[salicylaldehydato-κO,O']nickel(II). Inorganica Chim Acta. 2023;550:121430. doi:10.1016/J.ICA.2023.121430
3. Enamullah M, Haque I, Mim A, et al. Pseudotetrahedral C2-symmetrical Co/Zn(II)-achiral Schiff base complexes with Δ/Λ-chirality induction at-metal as a racemic mixture. J Mol Struct. 2023;1292:136078. doi:10.1016/J.MOLSTRUC.2023.136078
4. Rudbari HA, Saadati A, Aryaeifar M, et al. Pseudotetrahedral Zn(II)-(R or S)-dihalogen-salicylaldiminato complexes with Λ- or Δ-chirality induction at-metal. Dalt Trans. 2022;51(6):2385-2399. doi:10.1039/D1DT04220C
5. Enamullah M, Mostafizur Rahman M, Khairul Islam M, Woschko D, Janiak C, Pescitelli G. Characterization of Diastereomeric Equilibria of Pseudotetrahedral Bis[(R or S)-N-1-(Ar)Ethylsalicylaldiminato-κ2N,O]zinc(II) with Λ/Δ-Chirality-At-Metal Induction. ChemistryOpen. 2022;11(7):e202200116. doi:10.1002/OPEN.202200116
6. Haque MA, Ashik MA, Aktar S, et al. Rapid Deconstruction of Cotton, Coir, Areca, and Banana Fibers Recalcitrant Structure Using a Bacterial Consortium with Enhanced Saccharification. Waste and Biomass Valorization. 2021;12(7):4001-4018. doi:10.1007/S12649-020-01294-W/FIGURES/6
7. Kordestani N, Amiri Rudbari H, Correia I, et al. Heteroleptic enantiopure Pd(II)-complexes derived from halogen-substituted Schiff bases and 2-picolylamine: synthesis, experimental and computational characterization and investigation of the influence of chirality and halogen atoms on the anticancer activity. New J Chem. 2021;45(20):9163-9180. doi:10.1039/D1NJ01491A
8. Enamullah M, Al-moktadir Zaman M, Bindu MM, Woschko D, Islam MK, Janiak C.
9. Pseudotetrahedral high-spin manganese(II)-complexes with (S or R)-N-1-(Ar)ethyl-salicylaldimine: Chiroptical property, chirality induction at-metal, paramagnetism, redox-potential, PXRD structures and DFT/TDDFT. J Mol Struct. 2021;1239:130455. doi:10.1016/J.MOLSTRUC.2021.130455
10. Enamullah M, Anwar Hossain M, Islam MK, Woschko D, Janiak C. Pseudotetrahedral copper(II)-complexes with enantiopure (R or S)-2-(((aryl)ethylimino)ethyl)phenolate Schiff base ligands. Dalt Trans. 2021;50(26):9236-9249. doi:10.1039/D1DT01671G
11. Górecki M, Enamullah M, Islam MA, et al. Synthesis and Characterization of Bis[(RorS)-N-1-(X-C6H4)ethyl-2-oxo-1-naphthaldiminato-κ2N,O]-Λ/Δ-cobalt(II) (X = H,p-CH3O,p-Br) with Symmetry- And Distance-Dependent Vibrational Circular Dichroism Enhancement and Sign

Inversion. Inorg Chem. 2021;60(18):14116-14131. doi:10.1021/ACS.INORGCHEM.1C01503/ASSET/IMAGES/LARGE/IC1C01503_0008.JPEG
12. Aryaeifar M, Amiri Rudbari H, Blacque O, et al. Schiff base ligands derived from 1,2-bis(2′-nitro-/amino-phenoxy)-3-R-benzene and 2-hydroxy-1-naphthaldehyde and their Cu/Zn(II) complexes: synthesis, characterization, X-ray structures and computational studies. CrystEngComm. 2021;23(36):6322-6339. doi:10.1039/D1CE00829C
13. Enamullah M, Islam MK, Höfert SP, Janiak C. Syntheses, spectroscopy, tautomerism, induced chirality and molecular structure of 3-(o/p-tolylimino)indolin-2-one and bis[3-(o/p-tolylimino)indole-2-olato-κ2N,O]-Δ/Λ-zinc(II). Inorganica Chim Acta. 2020;501:119245. doi:10.1016/J.ICA.2019.119245
14. Enamullah M, Al-moktadir Zaman M, Bindu MM, Islam MK, Islam MA. Experimental and theoretical studies on isatin-Schiff bases and their copper(II)-complexes: Syntheses, spectroscopy, tautomerism, redox potentials, EPR, PXRD and DFT/TDDFT. J Mol Struct. 2020;1201:127207. doi:10.1016/J.MOLSTRUC.2019.127207
15. Enamullah M, Joy BA, Islam MK. Syntheses, spectroscopy, electrochemistry, EPR, PXRD-structure and DFT/TD-DFT of bis[2-oxo-1-naphthaldehydato-κO,O']copper(II). J Mol Struct. 2019;1175:56-64. doi:10.1016/J.MOLSTRUC.2018.07.068
16. Brishti PS, Islam MK, Sarkar S, et al. Environmental Contamination of Heavy Metals in Fish and Water Samples of Shitalakkhya River, Dhaka, Bangladesh. Int J Sci Technoledge. 2018;6(12). doi:10.24940/THEIJST/2018/V6/I12/ST1811-011
17. Enamullah M, Vasylyeva V, Quddus MA, Islam MK, Höfert SP, Janiak C. Spontaneous resolution of a Δ/Λ-chiral-at-metal pseudo-tetrahedral Schiff-base zinc complex to a racemic conglomerate with C–H···O organized 41- and 43-helices. CrystEngComm. 2018;20(33):4724-4734. doi:10.1039/C8CE00839F
18. Enamullah M, Quddus MA, Halim MA, Islam MK, Vasylyeva V, Janiak C. Switching from 4 + 1 to 4 + 2 zinc coordination number through the methyl group position on the pyridyl ligand in the geometric isomers bis[N-2-(4/6-methyl-pyridyl)salicylaldiminato-κ2N,O]zinc(II). Inorganica Chim Acta. 2015;427:103-111. doi:10.1016/J.ICA.2014.11.020
19. Enamullah M, Islam MK, Halim MA, Janiak C. Syntheses, spectroscopy, X-ray and DFT/TDDFT investigations of Rh(η4-cod)-enantiopure aminocarboxylate complexes. J Mol Struct. 2015;1099:154-162. doi:10.1016/J.MOLSTRUC.2015.06.040
20. Enamullah M, Islam MK. Syntheses, spectroscopy, optical properties, and diastereoselectivity of copper(II)-complexes with chiral aminoalcohol based Schiff bases. J Coord Chem. 2013;66(23):4107-4118. doi:10.1080/00958972.2013.861063

PERSONAL INFORMATION & SKILLS

Date of Birth	15-09-1990
Place of Birth	Tangail
Permanent Address	Village: Sandalpur, Post Office: Bhaigat, Upozila: Dhanbari, District: Tangail
Language(s)	Bengali (Mother Tongue), English (Medium of Instruction), German
Software	MS Office, APEX3, SHELXL, EXPO 2014, JANA 2006, Gaussian 09, Chemdraw, Pymole, Atoms, Auto Dock, Discovery Studio, Avogrado, LabSolution, Windows 7, 8 & 10; Linux, OS installation, BIOS and LAN setup.

SOCIAL ACTIVITIES

Name of Organization	Position	Role
Bangladesh Association of Computational Materials Science (BACMS)	**Treasurer** (2019-Present)	Working to grow scientific interest among researchers in the field related to Computational and Materials Science.
Jahangirnagar University Science Club, JU, Dhaka	**President** (2012) **Secretary** (2011)	Demonstrated my creative ideas effectively to share and communicate with others. I have better experience on public relations.

MEMBERSHIP

1. Treasurer, Bangladesh Association of Computational Materials Science (BACMS), Dhaka.
2. Life Member, Bangladesh Chemical Society, Dhaka.
3. Member, Bangladesh Institute of Computational Chemistry and Bio-Chemistry, Dhaka.
4. Registered graduate, Jahangirnagar University, Savar, Dhaka.

REFERENCES

Reference 1	Reference 2
Dr. Mohammed Enamullah Vice-Chancellor Hajee Mohammad Danesh Science and Technology University and Professor, Department of Chemistry, Jahangirnagar University, Dhaka Phone: +88-01741179534 Email: enamullah@juniv.edu	**Dr. Md. Monwar Hossain** Director, Wazed Miah Science Research Centre and Professor, Department of Zoology Jahangirnagar University, Savar, Dhaka Phone: +88-01926773511 Email: monwar@juniv.edu