

Md. Saiful Islam

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**Professional Experience**

Institution Name	University of Dhaka
Position	Lecturer
Department	Department of Chemistry
Duration	From 4 th October 2018 to 1 st November 2022
Address	Department of Chemistry, University of Dhaka, Dhaka-1000, Bangladesh
Position	Assistant Professor, From 1 st November 2022 to present
Institution Name	Bangladesh Atomic Energy Commission
Position	Scientific Officer
Duration	From December 28 th 2017 to October 03 rd , 2018

Academic Background

Degree	Institution	Department/Group	Exam Year	Result
M.S	University of Dhaka	Inorganic and Analytical Chemistry	2015	3.88/4.00
B.S	University of Dhaka	Department of Chemistry	2014	3.85/4.00
H.S.C	Notre Dame College, Dhaka	Science	2009	5.00/5.00
S.S.C	K. M Latif Institution, Mathbaria, Pirojur	Science	2007	5.00/5.00

Research Interest

- 1.Coordination Chemistry : Synthesis and characterization of complex compounds with biological interest
2. Environmental Chemistry & Radiochemistry

Research Work

Undergraduate Project	Cobaloxime Complexes: Synthesis, Characterization and Thermal Decomposition Kinetics of Complexes
M.S. Thesis	Measurement of Activity concentration of Thorium in Environmental samples by Alpha Spectrometry system

Selected Publications

1. **Synthesis, Characterization and Biological Activities of Tolfenamic Acid Alkaline Earth Metal Complexes**, Shamima Akther, Saiful Islam*, Md. Shahidur Rahman, Hasina Akhter Simol, A. H. M. Shofiul Islam Molla Jamal, Dipa Islam, Pradip K. Bakshi, *Applied Organometallic Chemistry*, 2024 doi.org/10.1002/aoc.7779
2. **Radioactivity Levels, Spatial Distribution, and Radiological Risk Assessment of ^{226}Ra , ^{228}Ra , ^{40}K , and ^3H in Water Samples from Dhaka City and Savar, Bangladesh**, Md. Ishmum Chowdhury, Saiful Islam*, Md. Amjad Hossain, Jannatul Ferdous, Pradip K. Bakshi, *ACS Omega*, 2024, doi.org/10.1021/acsomega.4c02958
3. **Spatial distribution and soil-to-plant transfer factors of radionuclides in agricultural soil around the Barapukuria coal mining site, Bangladesh**, Tonima Parvin, Saiful Islam, Jannatul Ferdous, Saurav Dey Shuvo, Pradip K Bakshi, *Environmental Science: Processes and Impacts*, 2025, <https://doi.org/10.1039/D4EM00653D>
4. **Natural and Anthropogenic Radionuclides in Atmospheric Air and Assessment of Inhalation Dose over Brick Field Areas, Dhaka, Bangladesh**, Saiful Islam, N. M. Aranna, Jannatul Ferdous, P. K. Bakshi, *Radiochemistry*, 2025, doi.org/10.1134/S1066362225010138
5. **Nano-sized Binuclear Ag(I) Complexes with Thiocyanate and N-Donor Ligands: Synthesis, Characterization, Antimicrobial, Antioxidant and Anticancer Activities**, Md. Tangebul Islam, Saiful Islam, G. M. Golzar Hossain, Dipa Islam & Pradip K. Bakshi, *Journal of Inorganic and Organometallic Polymers and Materials*, 2025, doi.org/10.1007/s10904-025-03608-8
6. **Natural Radioactivity and Heavy Metal Contamination in Edible Fish, Shellfish and Mollusks at the Bay of Bengal, Kuakata, Bangladesh**, Samin Yeasar Risal, Saiful Islam*, Jannatul Ferdous, Md Nure Alam Siddik, Pradip K. Bakshi, *Heliyon*, 2024, doi.org/10.1016/j.heliyon.2024.e37787
7. **Synthesis, characterization, and evaluation of the antimicrobial, cytotoxic properties of alkaline earth metal complexes containing the nucleobase guanine**, Saiful Islam*, Asaduzzaman, Hasina Akhter Simol, Pradip K. Bakshi, *Chemical Papers*, 2024 doi.org/10.1007/s11696-024-03494-3
8. **Investigation of isotopic ratio ($^{234}\text{U}/^{238}\text{U}$), chemotoxicity and radiotoxicity of dissolved uranium in selected groundwater of Bangladesh**, Saiful Islam*, Prianka Banik, Jannatul Ferdous, Pradip K. Bakshi, *Journal of Radioanalytical Nuclear Chemistry*, 2023, doi.org/10.1007/s10967-023-08914-4
9. **Crystal Field Splitting Energy (Δ_o) and Racah Parameters (B) of Some Metal-Saccharine and Metal-Saccharine-Ethylenediamine Complexes**. Saiful Islam*, Akter, H., & Bakshi, P. K., *Dhaka University Journal of Science*, 2023, doi.org/10.3329/dujs.v71i1.65266

10. **Assessment of Contamination Level, Pollution Risk and Source Apportionment of Heavy Metals in the Halda River Water, Bangladesh,** Moumita Dey, Asma Akter, Saiful Islam, Shaikat Chandra Dey, Tasrina Rabia Choudhury, Konica JannatFatema, Bilkis Ara Begum, *Heliyon*, 2021, doi.org/10.1016/j.heliyon.2021.e08625
11. **Cobaloxime complexes: synthesis, characterization and thermal decomposition kinetics of complexes,** Saiful Islam*, Tapas Debnath, Pradip K. Bakshi, *Journal of the Bangladesh Chemical Society*, 33(2), 67-72, 2022

Supervisions /Ongoing Research

1. Synthesis, characterization and *In vitro* biological activities of Schiff base metal complexes derived from ortho-vanillin & sulfanilamide and p-aminoazobenzene & 2-hydroxy-1-naphthaldehyde
2. Synthesis and characterizations of uranyl (UO_2^{2+}) complexes with *N*- donor ligands and its photocatalytic activity
3. Synthesis and characterization U_3O_8 nanoparticles form uranyl-amino acid complexes
4. Natural radioactivity and heavy metal contents in tobacco products of Bangladesh
5. Geochemical behavior of radium in groundwater of Dhaka city of Bangladesh

Workshop/Training (Attended)

1. **Industrial Process Unit Operation & Process Control.** 1 Jun -23 June, 2014. Conducted by Operation and Process control Technology Department (OPTD), TICI (Training Institute for Chemical Industries), Polash, Narshingdi-1611, Bangladesh.
2. **International Symposium on Chemical Safety and Security Management ISCSSM2020.** 11-12 February, 2020. Sena Malancha, Dhaka Cantonment, with the support of Organization for the Prohibition of Chemical Weapons (OPCW).
3. **Technological Aspects of AES-2006 (VVER-1200). Development of Nuclear Curricula on VVER Technology.** 08-21 November, 2021 (online) Conducted by Rosatom Technical Academy, Obninsk, Russian Federation.

Instrumental Skill

- Double Beam UV-Visible Spectrophotometer (UVD-500, Labomed, USA)
- Fourier-Transform Infrared Spectroscopy (Frontier FT-IR/ NIR, USA)
- Alpha Spectrometer (ORTEC Surface barrier silicon detector, Model no. 576A-300RV)
- Liquid Scintillation Counter
- LC-MS

Language Proficiency

1. **Bengali:** Mother tongue
2. **English:** Good communication skill in listening, reading, writing and speaking

Computer Literacy

General Software

Microsoft office

Microsoft Office Excel

Microsoft Office Powerpoint

Application Software

Sigmaplot 10

Chemdraw

Origin

Chem sketch

Aqua Chem

SPSS10

Award/Scholarships

1. Dean's Award for Outstanding Accomplishment in B.S. Honours Examination
2. DU Research Excellence Recognition, 2025
3. Adhyapak Abdul Muktadir Memorial Scholarship for academic excellence
4. Ronendrochondro Dashgupto Memorial Scholarship for academic excellence
5. National Science and Technology (NST) Fellowship (2015-2016)

References

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