

AHMEDUL KABIR, Ph.D. (USA)

Assistant Professor, Asian University for Women, 20/A M M Ali Rd, Chattogram
+880 1632 697821 || ahmedul.kabir@auw.edu.bd

Teaching Qualifications

- Have a strong theoretical and practical knowledge of inorganic, organic, physical, environmental and analytical chemistry.
- Skilled in organized lecture preparation and different teaching techniques to reach out every student regardless the class size and student diversity.
- Ability to develop and execute lesson plans for theory and practical courses following international standards.
- 10+ years of research experience, supervised senior thesis students.

Education

Doctor of Philosophy Oklahoma State University, Stillwater, OK, USA Major: Chemistry Dissertation: Chemistry of Ion Exchange Resins and Amines Advisor: Prof. Allen Apblett	August 2017
Master of Science University of Dhaka, Bangladesh Major: Organic Chemistry Thesis: Dissipation Pattern of Cypermethrin in Tomato Advisor: Prof. Nilufer Nahar	June 2009
Bachelor of Science University of Dhaka, Bangladesh. Major: Chemistry Project: Fe(II) phenanthroline, $K_2Cr_2O_7$ and Ce(IV) Reaction Kinetics Advisor: Prof. Muhibur Rahman	June 2007

Teaching Experience

Assistant Professor in Chemistry and Biochemistry: Asian University for Women, Chattogram, Bangladesh	Aug 2017 - Present
<ul style="list-style-type: none">• Area of teaching: General Chemistry, Organic Chemistry, Environmental Toxicology and Biochemistry. Also, general science for social science students.• Teaching both theory and laboratory courses; holding office hours and student advising is among other responsibilities.	

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- Supervised senior thesis research. Member of different academic committees.

Teaching Experience continued

Graduate Teaching Assistant: Aug 2011 – July 2017

Oklahoma State University, Stillwater, Oklahoma, USA

- Prepared and gave short lectures in classes of 35 students explaining the experiments and related theoretical backgrounds; helped with instrument use.
- Proctored exams; evaluated and graded lab reports, homework and exams.
- Held office hours, also assisted students by email and personal appointments.

A-Level Chemistry Teacher: Feb 2010 – July 2011

Mastermind English Medium School, Dhanmondi, Dhaka, Bangladesh

- Prepared and gave lectures in classes of 50 students.
- Conducted practical labs, helped designing lab experiments and maintained inventory.
- Proctored and graded exams. Prepared colleagues to teach advanced topics.

Lecturer in Chemistry: Feb 2009 – Jan 2010

Milestone College, Uttara, Dhaka, Bangladesh

- Lectured class, conducted practical labs, proctored and graded exams.
- Worked as a Form Master: Kept student records and prepared reports, collaborated with administration and parents. Assisted students participating in science projects.

Research Experience

Oklahoma State University, USA Jan 2012 – July 2017

Graduate Research Assistant, Department of Chemistry

In collaboration with Department of Chemical Engineering

Supported by Electric Power Research Institute (EPRI), USA

- Successfully developed a method to analyze filming and alkalizing amines using LC-MS.
- Used the method to determine amine uptake capacity of different ion exchange resins.
- Studied the effect of amine exposure on properties of different ion exchange resins.
- Performed the kinetic study of ion exchange resins exposed by amines.
- Prepared metal derivatives of ion exchange resins and used for heavy metal exchange.
- Prepared reports, maintained deadlines and kept contact with funding agency and collaborating groups.

University of Dhaka, Bangladesh

Aug 2007 – June 2009

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Research Student, Department of Chemistry

In collaboration with Bangladesh Agriculture Research Institute

Supported by International Programme in the Chemical Sciences

(IPICS), Uppsala, Sweden.

Research Experience continued

- Determined dissipation pattern and kinetics of cypermethrin in tomato.
- Used solvent extraction and GC-ECD for cypermethrin analysis.

Completed an **Undergraduate Research Project (January – June, 2007)** on determination of the reaction kinetics of Fe(II) 1,10-phenanthroline, $K_2Cr_2O_7$ and Ce(IV) in H_2SO_4 .

Research Contributions

1. S. Sowmya, V. Jose, G. Rajendra Kumar, Samiha Nuzhat, Ahmedul Kabir, Paulraj Mosae Selvakumar, Anthracene conjugated carboxylic acids for luminescent materials: Design, synthesis and photophysical studies, *Materials Today: Proceedings*, <https://doi.org/10.1016/j.matpr.2020.07>.
2. Functionalized Bio- Carbon Nanomaterials based devices for Environment- Mahtabin Rodela Rozbu, Ahmedul Kabir, Paulraj Mosae Selvakumar- Publisher Springer
3. Consumer Nanoproducts for Environment- Anika Tasnim Chowdhury, Nazifa Raza, Ahmedul Kabir and Paulraj Mosae Selvakumar- Publisher Springer
4. A Phenomenographic Study Assessing the Teaching-Learning Approach of an Undergraduate Organic Chemistry Course Based on the Perceptions, Performances and Suggestions of Non-major Chemistry Students of Asia, Authors: Samiha Nuzhat, Rahul Das, Ahmedul Kabir, AKM Moniruzzaman Mollah and Paulraj Mosae Selvakumar
5. CHEMISTRY AND COVID-19: A REVIEW ON THE CENTRAL ROLE OF CHEMISTRY IN THE UNDERSTANDING, PREVENTION, DIAGNOSIS AND TREATMENT OF COVID-19, Authors: Thilageshwary Gobalan, Chimi Denka, E. A. Vindya Hemali Edirimanna, Shaznine Ramiz, A. Christine Thevarmirtha, Jeslin Jeba Soundari Mahimairaja, M.S.A. Muthukumar Nadar, Ahmedul Kabir and P. Mosae Selvakumar (under review)
6. Lhamo Pema, Kabir Ahmedul, Uddin Mohhamed Nazim. Assessing the influence of human settlements on the plant diversity in wetlands of Phobji and Gangtey, Bhutan. *Recent Research in Science and Technology; Volume 12(1), 2020; Special Issue on ICNST'19*. DOI: [10.25081/rrst.2020.12.6085](https://doi.org/10.25081/rrst.2020.12.6085)
7. M. Hasan*, M. M. Rahman, A. Kabir*, A. Apblett, G. Foutch. Mass-Transfer Coefficient as an Indicator of Resin Performance: Impacts of Film-Forming Amines and Storage Time on Condensate Polishing Ion-Exchange Resins. *ACS Industrial and Engineering Chemistry Research* **2018**, DOI: [10.1021/acs.iecr.8b01681](https://doi.org/10.1021/acs.iecr.8b01681)

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8. Foutch, G., A. Apblett, M. Hasan, A. Kabir. Impact of Film-Forming Amines on Condensate Polishing Ion Exchange Resins. *EPRI*, Palo Alto, CA. Technical Report TR#3002000710, February, **2014**

Research Contributions Continued

9. Foutch, G.; A. Apblett; M. Hasan; A. Kabir. Impact of Film-Forming Amines on Condensate Polishing Ion Exchange Resins. *EPRI*, Palo Alto, CA. Technical Report TR#3002000416, April, **2013**
10. Nilfur Nahar, Mohammad Shoeb, M Iqbal Rouf Mamun, Sultan Ahmed, Mir Mahadi Hasan, A. Kabir. Studies of Dissipation Pattern of Cyoermethrin in Tomato. *Journal of Bangladesh Chemical Society* **2012**, Vol. 25(2), 200-203

Conference Organization, Presentations and Meeting Participations

Asian University for Women

- Served as a **co-chair** of 5th International Conference on Natural Science and Technology (ICNST '18), March 30 – 31, 2018
- Editor of **Special Issue for ICNST 2018**, Vol 8, *Journal of Natural Sciences Research* <https://www.iiste.org/Journals/index.php/JNSR/issue/view/3652>
- Editor of **Proceedings of the 5th International Conference on Natural Science and Technology (ICNST '18)**, *i-Lab Australia Publishing Group* <http://ilab-australia.org/jms/preface/>

American Chemical Society (ACS) National Meeting

- Presented at 249th ACS National Meeting, Denver, CO, March 22 – 26, Spring 2015; (paper presentation).
- Presented at 247th ACS National Meeting, Dallas, TX, March 16 – 20, Spring 2014; (paper presentation).
- Presented at 245th ACS National Meeting, New Orleans, LA, April 7 – 11, Spring 2013; (paper presentation).

American Chemical Society Pentasectional Meeting

- Participated at 61st Pentasectional Meeting of the American Chemical Society, Bartlesville, Oklahoma, April 8 – 9, 2016.
- Presented at 60th Pentasectional Meeting of the American Chemical Society, Pittsburg, Kansas, April 10 – 11, 2015; (paper presentation).

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- Presented at 59th Pentasectional Meeting of the American Chemical Society, Stillwater, Oklahoma, April 11 – 12, 2014; (paper presentation).
- Participated at 57th Pentasectional Meeting of the American Chemical Society, Lawton, Oklahoma, March 16 – 17, 2012.

Presentations and Meeting Participations continued

Oklahoma State University

- Presented at 3MT competition, 2016
- Presented at 26th Annual Research Symposium, Oklahoma State University, Stillwater, Oklahoma, February 16 – 20, 2015; (paper presentation).
- Presented at Student Water Research Conference, April 4 – 5, 2013; (poster presentation).

Presented at a national seminar: Pollutants in Food, Water and Environment, Dhaka, Bangladesh; 2010.

Additional Teaching and Training Involvements

- Instrument Trainer in Gas Chromatography (GC), Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB) workshop 2010.
- Lectured and prepared chemistry lectures for 2 reputed university admission coaching centers in Bangladesh for 3 years.

Skills

- **Advanced Courses:** Microscopy, Solid State Chemistry, Environmental Chemistry, Advanced Reaction Mechanism, Chromatographic Techniques.
- **Instruments:** Liquid Chromatography Mass Spectrometry (LC-MS), Gas Chromatography Mass Spectrometry (GC-MS), Scanning Electron Microscopy (SEM), Transmission Electron Microscopy (TEM), Atomic Force Microscopy (AFM), Microwave Plasma Atomic Emission Spectrometry (MP-AES).
- **Language:** English (fluent), Bangla (native).
- **Software Knowledge:** Microsoft Office, ChemBioDraw

Affiliations

- Member of American Chemical Society (ACS), 2012 – 2017

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- President of Bangladesh Student Association (BSA), Oklahoma State University, 2016 – 2017. Treasurer 2015
- President of Oklahoma State University Badminton Club, 2016 - 2017
- Founding member of CoAgULaTiON, chemist club of Fazlul Huq Hall, University of Dhaka.
- Former member of Dhaka University Debating Society (DUDS)