



MD. ATAUR RAHMAN

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ACADEMIC QUALIFICATION

Master of Science (M.S.) in Physical Chemistry <i>Department of Chemistry, University of Dhaka</i> <ul style="list-style-type: none">GPA: 3.98 out of 4.00 (First Position)	2013 (held in 2014) Dhaka, Bangladesh Jun., 2015
Bachelor of Science (B.S.) Honours in Chemistry <i>Department of Chemistry, University of Dhaka</i> <ul style="list-style-type: none">CGPA: 3.79 out of 4.00 (First Position)	2012 (held in 2013) Dhaka, Bangladesh Sept., 2013
Higher Secondary Certificate (HSC) Examination <i>Govt. Science College</i> <ul style="list-style-type: none">GPA: 5.00 out of 5.00	2008 Dhaka, Bangladesh Sept., 2008
Secondary School Certificate (SSC) Examination <i>Jajira Mohar Ali High School</i> <ul style="list-style-type: none">GPA: 4.88 out of 5.00	2006 Shariatpur, Bangladesh Jun., 2006

AWARD/SCHOLARSHIP/FELLOWSHIP

- Dean's Award (**Gold Medal**) 2013, Faculty of Science, University of Dhaka
- Undergraduate Board Scholarship, 2012
- University Postgraduate Scholarship, 2013
- National Science and Technology Fellowship (2014-2015 Fiscal)
- Dhaka University Alumni Association Scholarship
- Abdul Aziz Patwary Memorial Undergraduate Scholarship
- Prof. Abdul Muktadir Memorial Scholarship
- Qudrat-e-Khuda Foundation Scholarship
- Dr. Abdul Satter Khan Memorial Trust Fund Scholarship
- Prof. Dr. A S M Nurul Haque Bhuiyan Trust Fund Scholarship
- Ronenro Chandro Dasgupto Memorial Trust Fund Scholarship
- Dr. Abdul Jabber Miah Memorial Scholarship
- Dhaka Education Board Scholarship, 2006
- Talent pool Scholarship, 2003 (Junior Level)

PROFESSIONAL EXPERIENCE

University of Dhaka* <i>Assistant Professor, Department of Chemistry</i>	Dhaka-1000, Bangladesh Jun. 21, 2021– Present
University of Dhaka <i>Lecturer (Full Time Faculty), Department of Chemistry</i>	Dhaka-1000, Bangladesh Oct.4, 2018 – Jun. 20, 2021
Jagannath University <i>Lecturer (Full Time Faculty), Department of Chemistry</i>	Dhaka-1100, Bangladesh Aug.16, 2015 – Oct.3, 2018

Courses Taught: Chemical Spectroscopy I, Thermodynamics and Electrochemistry II, Calculus I, Calculus II, Fundamentals of Chemistry, Physical Chemistry Laboratory I, Physical Chemistry Laboratory II, Physical Chemistry Laboratory III, Physical Chemistry Laboratory IV & Physical Chemistry Laboratory (Graduate Level)

PUBLICATIONS

- Al Ashik, A.; **Rahman, M. A.**; Halder, D.; Hossain, M. M. Removal of methylene blue from aqueous solution by coconut coir dust as a low-cost adsorbent. *Appl Water Sci.* **2023**, *13* (3), 81.

2. **Rahman, M. A.**; Hossain, M. Z.; Ahmed, N. Adsorption Isotherms of 2,4-Dichlorophenol onto Lignocellulosic Materials, Used Black Tea Leaves. *Int. J. Adv. Engr.* **2022**, 5 (2), 1-8.
3. Momen, M. A.; **Rahman, M. A.**; Begum, H. A.; Hossain, M. M. Cu(II) Doped TiO₂ for Photodegradation of Remazol Black B in Aqueous Solution. *Dhaka Univ. J. Sci.* **2022**, 70 (1), 64-69.
4. Hossain, F.; **Rahman, M. A.**; Hossain, M. M. ZnO-TiO₂ Composite Mediated Photocatalytic Degradation of Orange G from Aqueous Solution. *Dhaka Univ. J. Sci.* **2022**, 69 (3), 218-224.
5. Halder, D.; Islam, M. N.; Hossain, M. M.; **Rahman, M. A.**; Samadder, R.; Rahman, M. M. Synthesis a clay based photocatalyst for the removal of eosin yellow in aqueous solution. *Int. J. Mat. Math. Sci.*, **2022**, 4 (4), 83-93.
6. Ahmed, N.; **Rahman, M. A.** Adsorptive Removal of 2,4-Dichlorophenol from Aqueous Solution by Using Used Black Tea Leaves. *J. Mex. Chem. Soc.* **2021**, 65 (2), 225-236.
7. Nawar, A.; **Rahman, M. A.**; Hossain, M. M. Fe(III)-aqua Complex Mediated Photodegradation of Methylene Blue Dye. *Int. J. Environ. Sci. Dev.* **2021**, 12 (4), 112-117.
8. Halim, M. E.; Farooque, K. N.; Hasan, M. M.; **Rahman, M. A.**; Islam, M. R.; Akhtar, U. S. Physico-chemical properties of rice husk ash and fly ash composite cement. *J. Bangladesh Chem. Soc.* **2021**, 33 (2), 122-127.
9. Hossain, F.; Hasan, M. M.; **Rahman, M. A.**; Halder, D; Hossain, M. M. A Comparative Study of Photodegradation of a Textile Dye Orange G by Fe(III)-Aqua Complex and Fenton Process. *J. Bangladesh Chem. Soc.* **2020**, 32 (1 & 2), 75-79.
10. **Rahman, M. A.**; Islam, T. S. A.; Hossain, M. M. Optical, Magnetic and Adsorptive Properties of Prepared Copper (II) Oxide. *Dhaka Univ. J. Sci.* **2020**, 68 (1), 7-12.*
11. **Rahman, M. A.**; Mazumder, A. Z. M. M. I.; Hossain, M. M.; Islam, T. S. A. Preparation, Characterization and Catalytic Activity of Copper (II) Oxide Nanoparticles. *Dhaka Univ. J. Sci.* **2018**, 66 (1), 9-13.*
12. Mazumder, A. Z. M. M. I.; Bikash, C. R.; **Rahman, M. A.**; Hossain, M. M. A Comparative Study for Adsorptive Removal of Remazol Red R and Remazol Black B from Aqueous Solution by ZnO. *Dhaka Univ. J. Sci.* **2018**, 66 (2), 121-127.*
13. **Rahman, M. A.**; Islam, T. S. A. Synthesis and Characterization of Copper Oxide Composite and Study of Composite Mediated Photo-Oxidative Degradation of Methylene Blue under Visible Light. *Int. Lett. Chem. Phys. Astron.* **2016**, 63, 29-35.*
14. Hossain, M. F.; Awal, A.; Akanda, M. R.; **Rahman, M. A.**; Rahman, A. K. M. L.; Rouf, M. A. Market Vegetable Waste Combined with Cow-Dung - a Potential and Economically Viable Source of Bio-Gas. *Jagannath Univ. J. Sci.* **2016**, 5 (I), 42-54.

PRESENTATIONS IN SCIENTIFIC CONFERENCES & SYMPOSIUMS

1. **Md. Ataur Rahman**, Tajmeri. S. A. Islam, "Synthesis and Characterization of Copper Oxide Composite and Study of Composite Mediated Photo-Oxidative Degradation of Methylene Blue under Visible Light", *16th Asian Chemical Congress*, 16-19 March 2016, Dhaka, Bangladesh (Oral presentation, PH-OP-09)
2. **Md. Ataur Rahman**, A. Z. M. Mainul Islam Mazumder, Md. Mufazzal Hossain and Tajmeri S A Islam, "Optical, Magnetic Properties and Catalytic Activity of Prepared Copper(II) oxide Nanoparticles", *International Conference on Chemical Science & Technology (ICCST-Chem 2018)*, 24-25 February 2018, Khulna University of Science & Technology, Khulna, Bangladesh (Oral presentation, OP/A6)
3. Nafees Ahmed, **Md. Ataur Rahman**, "Optimization of Physicochemical Conditions for the Adsorption of 2,4-Dichlorophenol onto Used Black Tea Leaves (UBTLs)", *International Conference on Chemical Science & Technology (ICCST-Chem 2018)*, 24-25 February 2018, Khulna University of Science & Technology, Khulna, Bangladesh (Oral presentation, OP/B11)
4. **Md. Ataur Rahman**, Tajmeri S A Islam, Md. Mufazzal Hossain, "Optical, Magnetic and Catalytic Properties of Prepared Copper(II) oxide", *5th Conference of Bangladesh Crystallographic Association*, 25-26 January 2019, University of Dhaka, Dhaka, Bangladesh (Poster presentation, PP-25)
5. Farhana Hossain, **Md. Ataur Rahman**, Md. Mufazzal Hossain, "Preparation and Characterization of ZnO-TiO₂ Composites and Their Application in Photodegradation of Textiles Dyes Orange G

- and Methylene Blue from Aqueous Solution”, *5th Conference of Bangladesh Crystallographic Association*, 25-26 January 2019, University of Dhaka, Dhaka-1000, Bangladesh (Poster presentation, PP-23)
6. **Md. Ataur Rahman**, Tajmeri S A Islam, Md. Mufazzal Hossain, “pH Dependent Photocatalytic Activity of Prepared CuO/Cu₂O Composite for the Photo-oxidative Degradation of Methylene blue from its Aqueous Solution Under Visible Light Irradiation”, *International Conference on Nano-materials for Environmental Applications (NEA 2019)*, 6-7 March 2019, Miramar, Goa, India (Poster presentation, PC 017)
 7. Mahbuba Zaman, **Md. Ataur Rahman**, Md. Mufazzal Hossain, “Photocatalytic Degradation of Aqueous Solution of Orange G Using TiO₂”, *International Conference on Recent Advances in Chemistry*, 7-8 February 2020, Jagannath University, Dhaka-1100, Bangladesh (Poster presentation, PP-D-06)
 8. Nasrin Akter, **Md. Ataur Rahman**, Md. Mufazzal Hossain, “ZnO Mediated Photodegradation of Aqueous Solution of Orange”, *International Conference on Recent Advances in Chemistry*, 7-8 February 2020, Jagannath University, Dhaka-1100, Bangladesh (Poster presentation, PP-D-05)
 9. Md. Abdul Momen, **Md. Ataur Rahman**, Md. Mufazzal Hossain, “Preparation, Characterization and Application of Cu(II) Doped TiO₂ in Photodegradation of Aqueous Remazol Black B”, *International Conference on Recent Advances in Chemistry*, 7-8 February 2020, Jagannath University, Dhaka-1100, Bangladesh (Poster presentation, PP-D-02)

WORKSHOP

- “Plagiarism: Ethical Aspects & Remedy in Higher Education”, *Centre of Excellence in Teaching and Learning (CoETL), University of Dhaka, Dhaka-1000, Bangladesh*, 26 October 2019.
- “Workshop on SciFinder”, *Cyber Center, University of Dhaka, Dhaka-1000, Bangladesh*, 3 July 2019.
- “Workshop on X-ray Powder Diffraction and Data Analysis”, *Centre for Advanced Research in Sciences (CARS), University of Dhaka, Dhaka-1000, Bangladesh*, 27 January 2019.
- “National Integrity Strategy, Service Delivery and Good Governance”, *National Academy of Planning and Development, Ministry of Planning, Government of the People’s Republic of Bangladesh*, 21 August 2014.

RESEARCH INTEREST

Photochemistry, Material Chemistry, Surface Chemistry, Spectroscopy & Nonlinear Spectroscopy

COMPUTER SKILLS

- Programming Language: MATLAB
- Graphical Programming Environment: LabVIEW
- Molecule Editor: Chemdraw
- Scientific Graphing: SigmaPlot, KyPlot, Origin

TECHNICAL SKILLS

- UV-visible Spectrophotometer
- FTIR Spectrophotometer
- Magnetic Susceptibility Balance
- Scanning Electron Microscopy
- Energy Dispersive X-Ray Spectrometer
- X-Ray diffractometer
- Raman Spectroscopy

(Md. Ataur Rahman)