

Dr. M K Mohammad Ziaul Hyder

Professor

Department of Chemistry

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Education:

D. Eng., Yamagata University, Japan, 2017

Doctor of Engineering, Organic Material Engineering
Yonezawa, Yamagata, Japan

Dissertation: Development of Scavengers for Precious Metals Based on Cellulose Filter Paper Grafted with Polymers Bearing Sulfur Functional Groups

M. Phil., Chemistry, University of Chittagong, 2012

Concentration: Solution Chemistry, Liquid Chemistry, Quantum Chemistry, Statistical Thermodynamics.

Dissertation: Studies on Thermo-physical, Thermodynamic and Optical Properties of Binary Liquid Systems.

M. Sc., Chemistry, University of Chittagong, 2000

Class: First Class with fifth position

Concentrations: Physical Chemistry, Quantum Chemistry, Statistical Thermodynamics, Inorganic Chemistry, Nuclear Chemistry and Environmental Chemistry.

Thesis: Studies on Volumetric and Viscometric Properties of Isomeric Xylenes with Methanol.

B. Sc. (Hons.), Chemistry, University of Chittagong, 1999

Class: First Class with second position

Concentrations: Physical Chemistry, Inorganic Chemistry, Nuclear Chemistry and Environmental Chemistry, Applied Chemistry, Physics and Mathematics

Higher Secondary Certificates, Chittagong Board, 1996

Class: First Class

Concentrations: Chemistry, Physics, Mathematics and Biology

Secondary School Certificate, Comilla Board, 1994

Class: First Class

Professional Experiences:

Associate Professor, 2019–to date
Department of Chemistry
Chittagong University of Engineering and Technology

Associate Professor, 2018–2019
Department of Chemistry
Chittagong University of Engineering and Technology

Assistant Professor, 2010–2018.
Department of Chemistry
Chittagong University of Engineering and Technology

Lecturer, 2005-2010
Department of Chemistry
Chittagong University of Engineering and Technology

Awards and Fellowships:

- MEXT Scholarship from Japan Ministry of Education for PhD, 2014-2017
- MEXT Scholarship for Japanese Language Course, 2013
- M. Phil. Research Fellowship (University Grant Commission, 2009)
- Academic Excellent Award (University of Chittagong, 2003)
- Junior Talent Scholarship (Ministry of Education, 1991)
- Primary Scholarship (Ministry of Education, 1989)

Skills & Activities

Administrative Activities

Head, Department of Chemistry, Sept'20 to present

Provost, Shaheed Tareq Huda Hall, CUET, Sept'20 to present

Asstt. Provost, Shaheed Tareq Huda Hall, CUET, Nov'18 to Sept'20

Postgraduate Student Supervision

Supervising four M. Phil students

Research area	Nanomaterials and nanochemistry, Metal Scavenging, Polymer Synthesis, Method Development, Material Characterization, Polymer Engineering, Organic Synthesis, Solution Chemistry, Environmental Chemistry
Languages	Bengali; Bangla, English (IELTS: Band Score 6.5, writing 6.5, reading 6.5, listening 6.0 and speaking 6.0), Japanese
Scientific Memberships	Member, The society of polymer science, Japan. Member, Bangladesh Chemical Society, Bangladesh.

Publication Highlights

Book Chapter

- Md. Kaisar Ali, Sajjad Hussain Mir, [M. K. Mohammad Ziaul Hyder](#), Wenmin Yang, *Harvesting of Bioenergy and Biomaterials from Marine Resources*. Chapter 27, August 2020, John Willy & Sons; <https://doi.org/10.1002/9781119143802.ch27>

Journal Publications

- [M. K. Mohammad Ziaul Hyder](#), Muhammad A. Saleh, Faisal Hossain, Sajjad Husain Mir, Koichi Iwakabe, Ismail M. M. Rahman: *Viscometric Studies of Molecular Interactions in Binary Liquid Mixtures of Isomeric Xylenes with Methanol*. Journal of Chemical & Engineering Data 04/2018;, Vol. 63, pp. 1370-1381
DOI:10.1021/acs.jced.7b00971
- Md. Masudur Rhaman, Md. Rezaul Karim, [M K Mohammad Ziaul Hyder](#), Yunus Ahamed, Ranjit K. Nath, *Removal of Chromium (VI) from Effluent by a Magnetic Bioadsorbent Based on Jute Stick Powder and its Adsorption Isotherm, Kinetics and Regeneration Study*. April 2020, Water Air and Soil Pollution 231(4)
DOI: 10.1007/s11270-020-04544-8
- [M. K. Mohammad Ziaul Hyder](#), Shamim Akhtar, Sajjad Husain Mir, Ajit Khosla: *Density, excess molar volume and some of their derived properties of the binary systems of methyl acetate with methyl derivatives of monoethanolamine between 293.15 and 313.15 K*. Microsystem Technologies 02/2018; Vol. 24, pp: 4357-4371
DOI:10.1007/s00542-018-3813-6
- [M K Mohammad Ziaul Hyder](#), Ranjit K. Nath, Kamrul Hossain, Humayun Kabir: *Conductometric Properties of Benzoic Acid in Water and 1-Propanol Mixtures at the Temperatures from 298.15 to 313.15K*. Oriental Journal of Chemistry 02/2018; 34(1)., DOI:10.13005/ojc/340122

- P. Akhtar, Z. Yaakob, Y. Ahmed, M. Shahinuzzaman, [M.K. Mohammad Ziaul Hyder](#): *Total Phenolic Contents and Free Radical Scavenging Activity of Different Parts of *Jatropha* Species*. Asian Journal of Chemistry 01/2018; 30(2):365-370., DOI:10.14233/ajchem.2018.20980
- Ranjit K. Nath, [M.K. Mohammad Ziaul Hyder](#), M.F.M. Zain: *Improvement of Indoor Air Quality by Applying LiNbO₃ on Concrete*. Asian Journal of Chemistry 10/2017; 29(12):2692-2700., DOI:10.14233/ajchem.2017.20806
- [M K Mohammad Ziaul Hyder](#), Bungo Ochiai: *Synthesis of a Selective Scavenger for Ag(I), Pd(II), and Au(III) Based on Cellulose Filter Paper Grafted with Polymer Chains Bearing Thiocarbamate Moieties*. Chemistry Letters 01/2017; 46(4):492-494., DOI:10.1246/cl.160983
- [M K Mohammad Ziaul Hyder](#), Bungo Ochiai: *Selective recovery of Au(III), Pd(II), and Ag(I) from printed circuit boards using cellulose filter paper grafted with polymer chains bearing thiocarbamate moieties*. Microsystem Technologies 01/2017; Vol. 24, pp: 683-690 DOI:10.1007/s00542-017-3277-0
- [M. K. Mohammad Ziaul Hyder](#), Muhammad A. Saleh, Shamim Akhtar: *Densities and some related properties of the binary systems of methanol with isomeric xylenes between 303.15 and 323.15 K*. Journal of Molecular Liquids 04/2011; 159(3):204-210., DOI:10.1016/j.molliq.2011.01.006

Conference Proceedings

- [M K Mohammad Ziaul Hyder](#), Bungo Ochiai: *Selective Recovery of Ag(I), Pd(II), and Au(III) Using Cellulose Based Adsorbent Grafted with Polymer Bearing Thiocarbamate Side Chain..* 4th International Conference on Smart System Engineering (SmaSys-2016), Yonezawa, Yamagata, Japan; 10/2016
- [M K Mohammad Ziaul Hyder](#), Bungo Ochiai: *Synthesis of Scavenger for Precious Metal Ions Based on Cellulose Filter Paper Modified with Graft Copolymer Bearing Cyclic Dithiocarbonate Moieties*. IUPAC 11th International Conference on Advanced Polymers via Macromolecular Engineering (APME 2015), Yokohama, Japan; 10/2015
- [M K Mohammad Ziaul Hyder](#), Bungo Ochiai: *Synthesis of Scavenger for Precious Metal Ions Based on Cellulose Filter Paper Modified with Graft Copolymer Bearing Cyclic Dithiocarbonate Moieties*, International Workshop for Asian Young Researchers on Polymer Processing and Rheology, (JST-2017), Yonezawa, Yamagata, Japan; 03/2017
- [M K Mohammad Ziaul Hyder](#), Bungo Ochiai: *Extraction of gold and other precious metals from printed circuit board with modified filter paper adsorbent*, International Conference on Chemical Science and Technology (ICCST-Chem 2018), February 2018, KUET, Khulna, Bangladesh.

- [M. K. Mohammad Ziaul Hyder](#), Shamim Akhtar, Density, Refractive Index and Some Related Properties of the Systems of Eethylacetate+Substituted Ethanolamines between 303.15 and 3 23.15K
January 2011, 34th Annual Conference of Bangladesh Chemical Society 2011

References:

Dr. Bungo Ochiai, Professor, Department of Chemistry and Chemical Engineering,
Faculty of Engineering, Yamagata University, Japan. TEL/FAX: +81-238-26-3092
URL: <http://ochiai.yz.yamagata-u.ac.jp/index-e.html>
Email: ochiai@yz.yamagata-u.ac.jp>

Dr. Shamim Akhtar, Professor, Department of Chemistry, University of Chittagong.
Email: shamim3332000@yahoo.com