SADIA NAZNEEN KAROBI

Ph. D student (completed)

Graduate School of Life Science

Hokkaido University

Sapporo, Hokkaido

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**Career objective:**

To build up my career as an innovative researcher in the field of Basic Chemistry, Polymer chemistry & Material Science and earn dignity to contribute for the development of this field in my country through teaching and related area and acquire respect of others by being an honest and sincere person in every walk of life

**Academic Qualification**

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| **Name of the degree** | **Year of the Degree Obtained** | **Institute** | **CGPA/Class** |
| S.S.C | 2004 | Urea Sarkarkhana High School & College | 5.00/5.00 |
| H.S.C. | 2006 | Urea Sarkarkhana High School & College | 5.00/5.00 |
| B.S. (Honors) | 2010 (held in 2011) | Department of Chemistry, Dhaka University, Bangladesh | 3.70/4.00 (2nd among 68 students) |
| M.S. (Thesis) | 2011 (held in 2012) | Department of Chemistry, Dhaka University, Bangladesh | 3.63/4.00 |
| Doctor of Life Science | 2016 | Graduate School of Life Science, Hokkaido University, Japan | A Grade (80-90) |

**Research Experience**

**Undergraduate Project:** “*Study on Water Structure Modification by Amides and Thioamides and Its Consequence on Micellization Behavior of Cetyltrimethylammonium Bromide”*

**MS Thesis**: “*Study of cyclodextrin-surfactant inclusion complex and its consequence on the activity of the enzyme lipase”*

**PhD Thesis:***“Time dependent deformation of tough polyampholyte hydrogels”*

I have given an oral presentation on my undergraduate project work in *‘International Seminar on Supramolecular Chemistry’* held on Centre for Advanced Research in Sciences (CARS), University of Dhaka,Bangladesh

I participated in the following scientific seminar and presented poster of my own.

1. *34th Annual Conference of Bangladesh Chemical Society* (Dhaka, Bangladesh, 19-20 December, 2011).

2. *International Workshop on Nanotechnology(Dhaka,Bangladesh,21-23 December,2012)*

**Conference Presentations (International):**

1. Karobi SN, Kurokawa T, Sun TL, Ihsan AB, Nakajima T, Nonoyama T, Gong JP; Time dependent deformation of Tough Polyampholyte hydrogels. Joint Symposium of the Polymer Network Group Meeting and the Gel Symposium (PN&G 2014, Tokyo), Ito International Research Center, The University of Tokyo, November 10-14 2014
2. Karobi SN, Sun TL, Kurokawa T, Luo F, Nakajima T, Nonoyama T, Gong JP; Slow Relaxation Dynamics of Tough and Self-healing Polyampholyte Hydrogels. International Symposium on Rheology, Kobe University, Kobe, September 23 2015.
3. Sun TL, Luo F, Karobi SN, Kurokawa T, Nakajima T, Gong JP; Effect of temperature and strain rate on the tensile behavior of polyampholyte physical hydrogels. International Symposium on Rheology, Kobe University, Kobe, September 23 2015.

**List of Publications:**

1. Sadia Nazneen Karobi, Tao Lin Sun, Takayuki Kurokawa, Feng Luo, Tasuku Nakajima, Takayuki Nonoyama, Jian Ping Gong. “Creep Deformation and Delayed Fracture of Tough Polyampholyte Hydrogels by Tensile Test”*Macromolecules 2016*

2. Abu Bin Ihsan, Tao Lin Sun, Takayuki Kurokawa, Sadia Nazneen Karobi, Tasuku Nakajima, Takayuki Nonoyama, Chanchal Kumar Roy, Feng Luo, Jian Ping Gong “Self-healing Behaviors of Tough Polyampholyte Hydrogels” *Macromolecules 2016*

3. Tao Lin Sun, Feng Luo, Takayuki Kurokawa, Sadia Nazneen Karobi, Tasuku Nakajima, Jian Ping Gong “Molecular Structure of Self-healing Polyampholyte Hydrogels Analyzed from Tensile Behaviors” *Soft Matter2015*

4. Sadia Nazneen Karobi, Tao Lin Sun, Takayuki Kurokawa, Feng Luo, Tasuku Nakajima, Takayuki Nonoyama, Jian Ping Gong. “Sticky Ion Bond Controlled Slow Dynamics of Tough Polyampholyte Hydrogels” In Preparation

5. Sadia Nazneen Karobi, Tao Lin Sun, Takayuki Kurokawa, Feng Luo, Tasuku Nakajima, Takayuki Nonoyama, Jian Ping Gong. “Entanglements Controlled Toughening of Polyampholyte Hydrogels” In Preparation

6. Laila Arzuman, Sadia Nazneen Karobi, Md. Jahirul Islam, Gulshan Ara, M.Muhibur Rahaman, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan “Effect of Urea on the Kinetics of the Alkaline Hydrolysis of Crystal Violet Catalyzed by Aqueous Micellar Solutions of Cetyltrimethylammonium Bromide”*Synthesis and Reactivity in Inorganic Metal-Organic and Nano-Metal Chemistry 2014*

7. Tanjina Afrin, Sadia Nazneen Karobi, M. Muhibur Rahaman, M. Yousuf A. Mollah, Md. Abu Bin Hasan Susan “Water Structure Modification by Sugars and Its Consequence on Micellization Behavior of Cetyltrimethylammonium Bromide in Aqueous Solution” *Journal of Solution Chemistry 2013*

**Technical Skills:**

**Instrument handling:**

FT-IR/NIR Spectrophotometer, UV-Visible Spectrophotometer, Fluorescence Spectrophotometer, Raman Spectrophotometer, Force Tensiometer, Tensile Tester, Rheometer, Electrochemical Workstation, Thermogravimetric Analyzer (TGA)

**Computer skill:**

**Software:** MS-Office 2007, Sigmaplot, Origin, Adobe Photoshop, Adobe Illustrator, E-mail and Internet Browsing

**Operating system:** Windows 7, Windows 8, Windows Vista

**Language Skill:** Good command over Bengali and English reading, writing, listening and speaking

**Personal details**

Father’s name : Engr. Wazihullah

Mother’s name : Nasrin Ara Begum

Date of Birth : 28 February 1989

Nationality : Bangladeshi (by birth)

Religion : Islam

Marital Status : Single

Permanent Address : Vill-Ahutia, Thana-Pakundia, Dist.-Kishorgonj, Bangladesh

Present Address : 261, Sultangang Road, Jigatala, Hazaribagh, Dhaka-1209

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| **References**  **1.Dr. Md. Abu Bin Hasan Susan**  Professor  Dhaka University  Dhaka 1000, Bangladesh  Tel: 880-2-9661920 Ext. 7162  Mobile: 01819843753; 01552327672  Fax: 880-2-9667222  E-mail: susan@du.ac.bd | **2.Dr. Mohammad Yousuf Ali Mollah**  *Member*, University Grants Commission  of Bangladesh,  29/1 Agargaon, Sher-E-Bangla Nagar,  Dhaka-1207, Bangladesh  Former Dean, Faculty of Science and  Professor, Department of Chemistry,  University of Dhaka, Dhaka 1000,  Bangladesh  Tel: 880-1714748969  Fax: +880-2-9667222  E-mail: myamollah@hotmail.com |

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